

PRELIMINARY DETERMINATION
PERMIT RENEWAL, MODIFICATION & VARIANCE

Landsdown Environmental Solutions, LLC
444 South Perry Street
Montgomery, Alabama 36104

Landsdown Environmental Solutions
Permit No. 51-11

January 19, 2026

Landsdown Environmental Solutions, LLC has applied to the Alabama Department of Environmental Management (ADEM) for renewal, modification, and variance of the Solid Waste Disposal Facility Permit for Landsdown Environmental Solutions. The modification would add construction plans for all cells into the design drawings, and the requested variance would allow for 3:1 final grading. The waste stream for Landsdown Environmental Solutions would remain non-putrescible and non-hazardous construction and demolition waste, tires, appliances, and rubbish as defined by ADEM Admin. Code 335-13-1-.03. The service area for Landsdown Environmental Solutions would remain the State of Alabama. The maximum average daily volume of waste disposed at Landsdown Environmental Solutions would remain 2500 cubic yards a day.

The landfill is located in Sections 22, 26, 27, 34, & 35, Township 17 North, Range 17 East in Montgomery County, Alabama. The permitted facility consists of approximately 700 acres with 129.8 acres for disposal operations.

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

Technical Contact:

Isabel Bela
Solid Waste Engineering Section
Land Division
(334) 271-7954



SOLID WASTE DISPOSAL FACILITY PERMIT

PERMITTEE: Landsdown Environmental Solutions, LLC

FACILITY NAME: Landsdown Environmental Solutions

FACILITY LOCATION: Sections 22, 26, 27, 34, & 35, Township 17 North, Range 17 East in Montgomery County, Alabama. The total permitted area is approximately 700 acres with 129.8 acres approved for disposal.

PERMIT NUMBER: 51-11

PERMIT TYPE: Construction/Demolition (C/D) Landfill

WASTE APPROVED FOR DISPOSAL: Non-putrescible and non-hazardous construction and demolition waste, discarded tires, and rubbish as defined by ADEM Admin. Code 335-13-1-.03.

APPROVED WASTE VOLUME: Maximum Daily Volume of 2500 cubic yards per day

APPROVED SERVICE AREA: State of Alabama

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: XXX XX, 2026

EFFECTIVE DATE: XXX XX, 2026

EXPIRATION DATE: XXX XX, 2036

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
SOLID WASTE PERMIT

Permittee: Landsdown Environmental Solutions, LLC
170 County Road 40
Lowndesboro, AL 36752

Landfill Name: Landsdown Environmental Solutions

Landfill Location: Sections 22, 26, 27, 34, & 35, Township 17 North, Range 17 East in Montgomery County, Alabama.

Permit Number: 51-11

Landfill Type: Construction and Demolition Landfill

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 Landsdown Environmental Solutions, LLC (hereinafter called the Permittee), to operate a solid waste disposal facility, known as Landsdown Environmental Solutions.

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 January 18, 2023 for permit renewal and July 1, 2025 for permit modification and as amended 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 **XXX XX, 2025** and shall remain in effect until **XXX XX, 2035**, 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 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 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 ADEM Admin. Code 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 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 industrial waste and special waste.
- e. Groundwater monitoring records.
- f. Explosive gas monitoring records.
- g. Surface water and leachate monitoring records.
- 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.

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. The groundwater monitoring shall be conducted in March and September of each year, or as directed by ADEM, and the reports shall be submitted at least semi-annually, 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 once each year, and the reports should be submitted to ADEM 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 ADEM Admin. Code 335-13 must be furnished upon request, and made available at reasonable times for inspection by any 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 any 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 Lansdown Environmental Solutions office, the following documents and amendments, revisions and modifications to these documents until an engineer certifies closure.

1. Operating record.

2. Closure Plan.

Until construction of the landfill has commenced, the above documents will be maintained at the Aronov Realty Company's office located at 3500 Eastern Boulevard, Montgomery, AL 36116.

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
Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, AL 36130-1463

2. **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 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 pursuant to ADEM Admin. Code 335-1-1-06.

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 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, 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. 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 Lansdown Environmental Solutions is approximately 700 acres, with 200 acres approved for disposal.
 - 3. The maximum average daily volume of waste disposed at the facility, as contained in the permit application, shall not exceed 2500 cubic yards/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. The average daily volume shall be computed as specified by ADEM Admin. Code 335-13-4-.23(2)(f).
- B. Waste Streams. The Permittee may accept for disposal non-putrescible and non-hazardous construction and demolition waste, discarded tires, and rubbish as defined by ADEM Admin. Code 335-13-1-.03.
- C. Service Area. The Permittee is allowed to receive for disposal waste from the State of Alabama.
- D. Waste Placement, Compaction, and Cover. All waste shall be confined to an area as small as possible within a single working face 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 (25%) or as otherwise approved by ADEM. 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 minimum requirements for waste placement, compaction and cover unless a variance is granted in Section VIII.
- E. Liner Requirements. At this time, the Permittee shall not be required to install a liner system. 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 ADEM Admin. Code 335-13-4-.11(2)(a).
- 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 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 ADEM.
- N. Other Requirements. ADEM 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 ADEM.
- 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 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 being required at this landfill provided that the waste stream is in accordance with Section III, Paragraph B. Should any waste be disposed 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 Administrative Code, Division 13.

SECTION VI. SURFACE WATER MANAGEMENT

The permittee shall construct and maintain run-on and run-off control structures. 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 be constructed as specified in the application. The maximum final grade shall be 3 to 1 (33%). (See Section VIII. 1.)
- B. Vegetative Cover. The Permittee shall establish a vegetative or other appropriate cover, as approved by the Department, 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 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. 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 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 ADEM a certification, signed by a 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 Division 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 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 ADEM

SECTION VIII. VARIANCES

1. The Permittee has been granted a variance from ADEM Admin. Code 335-13-4-.20(2)(c)2. requiring a maximum 4 to 1 (25%) final grade for the final closure system. The maximum final grade shall be 3 to 1 (33%). (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.

January 18, 2023
File No. 09222096.01

Mr. Jason Wilson, P.E. , Chief
Solid Waste Branch
Land Division
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, AL 36110

via email: jwilson@adem.alabama.gov

Subject: Landsdown Environmental Solutions, LLC
Solid Waste Facility Disposal Permit Renewal
Permit No. 51-11

Dear Mr. Wilson,

The Solid Waste Facility Disposal Permit for Landsdown Environmental Solutions, LLC (Landsdown) expires on July 24, 2023. Pursuant to ADEM Admin. Code r. 335-13-5-02(4), an application for permit renewal shall be filed with the Alabama Department of Environmental Management (ADEM) by the owner or operator at least 180 days prior to the expiration date of the existing permit. On behalf of Landsdown, SCS Engineers submits the attached application package, including ADEM Form 439 and associated documents, requesting to renew Solid Waste Disposal Facility Permit No. 51-11.

In accordance with ADEM Admin. Code r. 335-13-5-02(1)(a)6, the name and mailing address of all property owners whose property, per county tax records, is adjacent to the Landfill is included with this submittal. The adjacent property owner list was retrieved from the Montgomery County tax records on December 14, 2022.

The applicable permit renewal application fees will be paid directly by Landsdown through ADEM's online payment portal. Confirmation of the payment of applicable fees will be provided to ADEM.

Please contact Eric Sanderson at (334) 332-8402 if you have any questions or need additional information regarding this submittal.

Sincerely,



Eric L. Sanderson, P.E.
Project Director
SCS Engineers



Robert B. Curtis, P.E.
Project Director
SCS Engineers

cc: Vince LaBarbera

Mr. Jason Wilson

January 18, 2023

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Attachments: ADEM Form 439

Adjacent Landowner Documentation

Certification Statement

**SOLID WASTE DISPOSAL FACILITY
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/ss/sobj

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)
 Construction and Demolition Landfill (C/DLF)
 CCR Landfill (CCRLF)
 CCR Surface Impoundment (CCRSI)
 Other (explain) _____

2. Facility Name Landsdown Environmental Solutions, LLC

3. Applicant/Permittee:

Name: Landsdown Environmental Solutions, LLC

Address: 170 County Rd. 40
Lowndesboro, AL 36752

Telephone: (540) 379-6990

If applicant/permittee is a Corporation, please list officers:

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

Township T17N Range R17E
Section 22,26,27,34,35 County Montgomery

5. Land Owner:

Name: 7406 Concord Highway LLC

Address: 7406 Concord Highway
Monroe, NC 28110

Telephone: (540) 379-6990

(Attach copy of agreement from landowner if applicable.)

Solid Waste Permit Application
Page 2

6. Contact Person:

Name Vincenzo Labarbera

Position or
Affiliation Member

Address: 170 County Rd. 40
Lowndesboro, AL 36752

Telephone: (540) 379-6990

7. Size of Facility:

Size of Disposal Area(s):

Approximately 700 Acres 200 Acres

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

State of Alabama

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

Tons/Day 2,500 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.):

Non-putrescible and non-hazardous construction and demolition waste, discarded tires,
and rubbish defined by ADEM Rule 335-13-1-03

SIGNATURE (Responsible official of permit applicant):

Vincenzo Labarbera TITLE: Member

Vincenzo Labarbera DATE: 1.18.2023
(please print or type name)

ADDITIONAL REQUIRED INFORMATION

Applicants seeking to obtain a permit to construct and/or continue to operate a municipal solid waste (MSW) landfill, industrial landfill, construction and demolition (C/D) 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 and C/D 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.

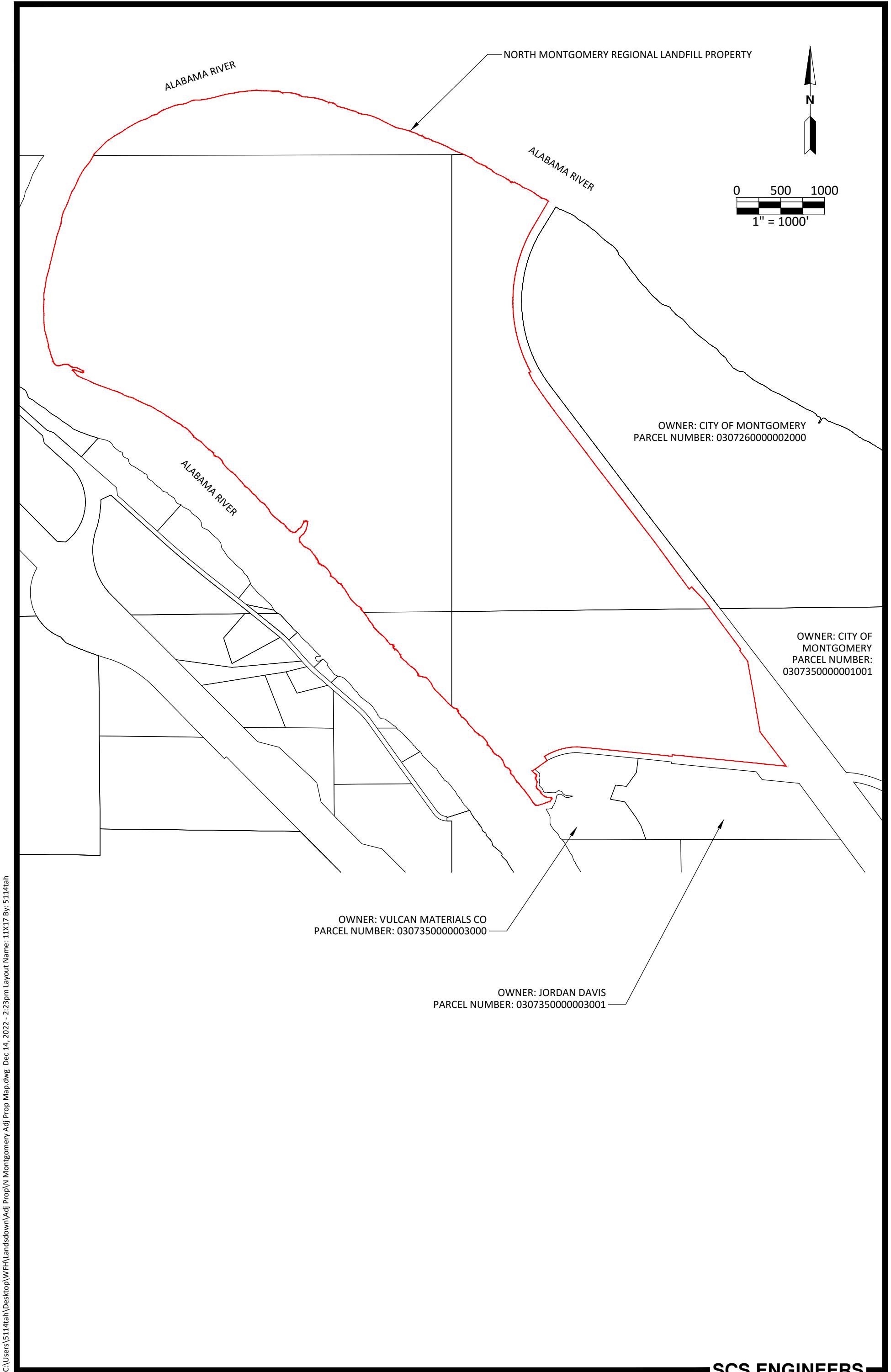
Landsdown Environmental Solutions, LLC - Adjacent Landowners

1	
OWNER	VULCAN MATERIALS CO
ADDRESS	1200 URBAN CENTER DRIVE BIRMINGHAM, AL, 35242-2545
PARCEL	307350000003000

2	
OWNER	JORDAN DAVID
ADDRESS	3698 US HWY 80 E LOWNDESBORO, AL, 36752
PARCEL	307350000003001

3	
OWNER	CITY OF MONTGOMERY
ADDRESS	PO BOX 1111 MONTGOMERY, AL, 36101
PARCEL	307260000002000

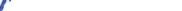
4	
OWNER	CITY OF MONTGOMERY
ADDRESS	PO BOX 1111 MONTGOMERY, AL, 36101
PARCEL	307350000001001



CERTIFICATION STATEMENT

The undersigned certify that this submittal is, to the best of our knowledge and belief, accurate and correct.

SIGNATURE (Facility Owner/Operator)

 TITLE: Member
Vincenzo Labarbera DATE: 1.18.2023
(print or type name)

SIGNATURE (Certifying Engineer)



TITLE: Professional Engineer

Eric L. Sanderson, P.E.

(print or type name)
DATE: 1/18/23

From: [Sanderson, Eric](#)
To: [Muscha, Mary Catherine](#)
Cc: [Wilson, J Jason](#); [Kelly, Jared](#); labar100@aol.com
Subject: Landsdown Environmental Solutions, LLC (51-11) Permit Renewal - Payment Confirmation
Date: Friday, January 27, 2023 2:16:00 PM
Attachments: [2023-01-19-0308-46-PPIF ESanderson@s kA9 Landsdown Environm.eml](#)

Mary Catherine,

Below is the Payment receipt for the Landsdown Environmental Solutions (51-11) renewal application referenced in the attached email. Please let me know if you have any questions.

Thanks

Eric

Eric Sanderson, PE
Project Director
SCS Engineers
1546 Elise Lane
Auburn, Alabama 36830
(334) 332-8402 (Cell)
esanderson@scsengineers.com

Driven by Client Success

www.scsengineers.com

----- Forwarded Message -----

From: "receipts@alabamainteractive.org" <receipts@alabamainteractive.org>
To: "Labar100@aol.com" <Labar100@aol.com>
Cc:
Sent: Wed, Jan 25, 2023 at 2:17 PM
Subject: ADEM - ADEM General Payment

Payment Receipt

01/25/2023 02:17 PM

Thank you for completing your transaction.
Please save a copy of this receipt for your records.

Receipt Confirmation Number: 20230125000014404

Agency: Alabama Department Of Environmental
Management

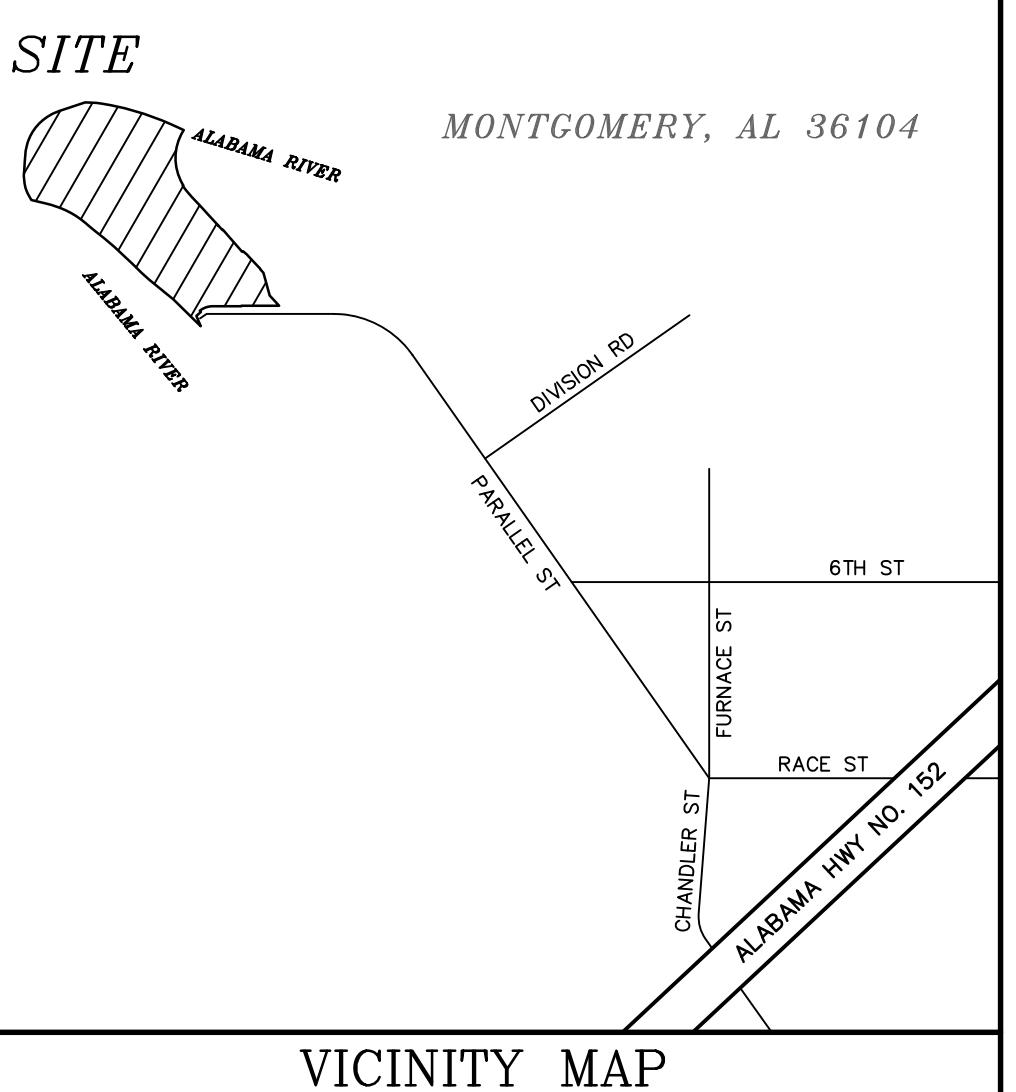
Application: ADEM General Payment

Payment Item	Fee
Application Fee	\$5,400.00
Total Fee through Alabama.gov(learn more)	\$5,402.00

This online service is provided by Alabama Interactive, LLC, a third party, working under a contract awarded and administered by Alabama's Department of Finance as authorized under contract number T001. The online price of items or services purchased through [Alabama.gov](#), the state's official web portal, includes funds to develop, maintain, enhance and expand offerings of the state's portal.

This is a system generated message.
Please do not reply to this email.





LEGEND

R/W	RIGHT-OF-WAY
(REC)	RECORD
(ACT)	ACTUAL
—	RIGHT-OF-WAY-LINE
—	CENTER LINE
—	FORESHORTENED LINE
—x—	FENCE LINE
—150—	GROUND CONTOUR
MNF	MAG NAIL FOUND
CMF	CONCRETE MONUMENT FOUND
CRF	CAPPED REBAR FOUND
RBF	REBAR FOUND
OTF	OPEN TOP FOUND
RRF	R/R RAIL FOUND
NR	NOT RECOVERED

500 0 500 1000
SCALE: 1" = 500'

VICINITY MAP

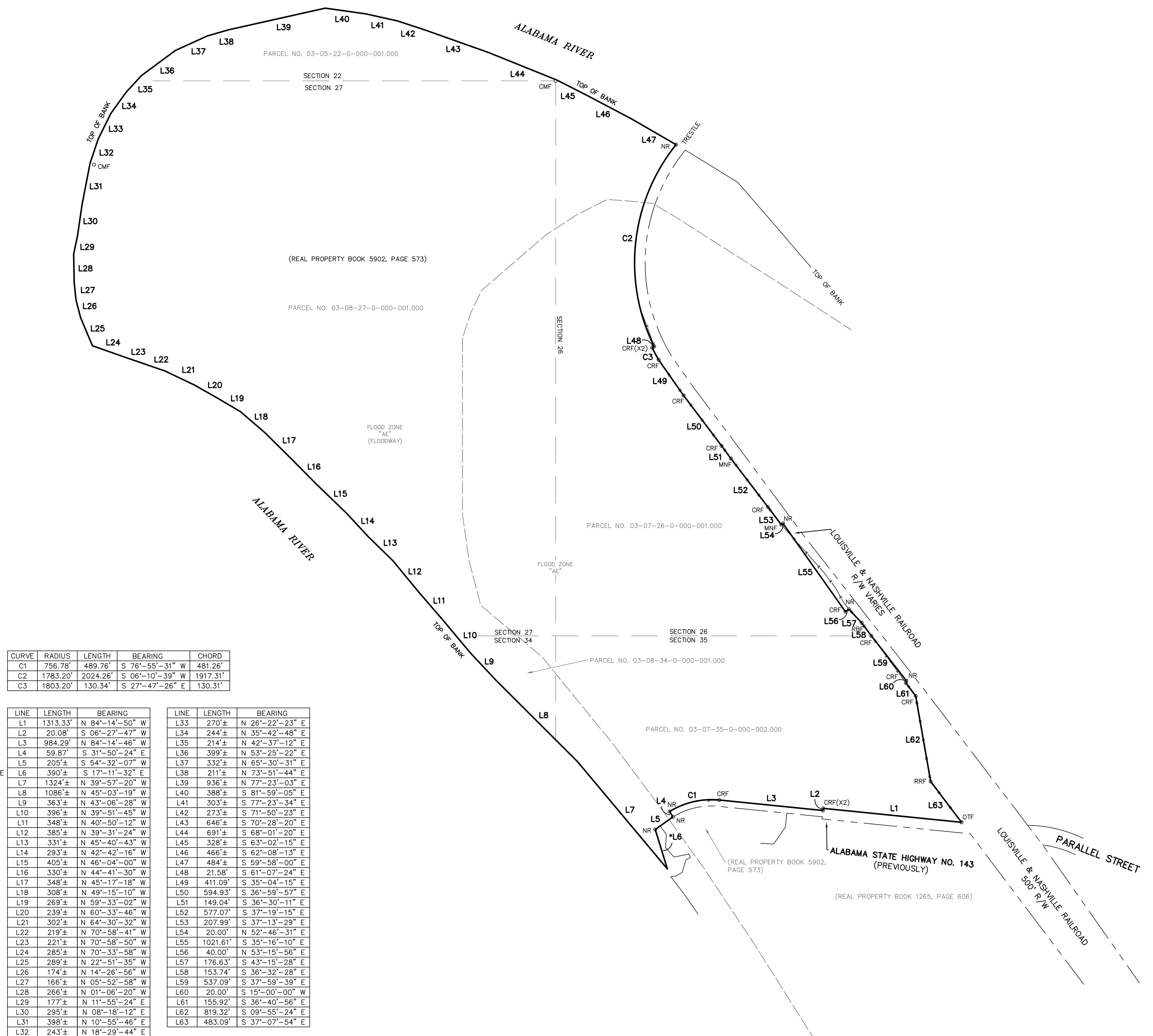
LEGAL DESCRIPTION

STATE OF ALABAMA COUNTY OF MONTGOMERY

Beginning at the Northwest intersection of the Louisville & Nashville Railroad and Alabama State Highway No.143 (Previously) aka Parallel Street, in the City of Montgomery Alabama run along the North line of said Alabama State Highway 143 as follows: North 84°14'50" West, A Distance of 313.33 feet, thence South 06°27'47" West, a distance of 204.26 feet, North 84°14'46" West, a Distance of 984.29, to the PC of a 750.78 foot plus curve to the left, thence Southwardly and Westwardly along the arc of said curve (Chord Bears South 76°55'31" West, 481.26 feet) a distance of 489.76 feet, thence South 31°50'24" East, A Distance Of 59.87 feet and the terminus of said Alabama State Highway 143; thence South 54°32'07" West, A Distance Of 205.00 more or less to the bank of a ditch; thence along the meanders of said ditch to the right, a distance of 300.00 feet more or less, North 17°13'32" East, A Distance Of 390.00 feet more or less; thence along the top bank of said river as follows: North 39°57'20" West, A Distance Of 1324 feet more or less, North 39°51'45" West, A Distance Of 396 feet more or less, North 39°51'06"28" West, A Distance of 363 feet more or less, North 39°51'45" West, A Distance Of 348 feet more or less, North 49°15'10" West, A Distance of 269 feet more or less, North 60°33'45" West, a distance of 239 feet more or less, North 46°04'32" West, a distance of 302 feet more or less, North 70°58'41" West, a distance of 219 feet more or less, North 70°33'58" West, a distance of 285 feet more or less, North 22°51'35" West, a distance of 289 feet more or less, North 14°26'56" West, a distance of 174 feet more or less, North 05°52'58" West, a distance of 166 feet more or less, North 01°06'20" West, a distance of 266 feet more or less, North 15°22'30" East, a distance of 171 feet more or less, North 08°18'12" East, a distance of 295 feet more or less, North 10°56'45" East, a distance of 398 feet more or less, North 18°29'44" East, a distance of 243 feet more or less, North 26°22'23" East, a distance of 270 feet more or less, North 35°42'48" East, a distance of 244 feet more or less, North 42°37'12" East, a distance of 214 feet more or less, North 53°25'22" East, A Distance Of 399 feet more or less, North 65°30'31" East, a distance of 332 feet more or less, North 77°23'03" East, a distance of 936 feet more or less, North 81°59'05" East, a distance of 388 feet more or less, South 77°23'34" East, a distance of 303 feet more or less, South 71°50'23" East, a distance of 273 feet more or less, South 70°28'20" East, a distance of 646 feet more or less, South 68°01'20" East, a distance of 691 feet more or less, South 63°02'15" East, a distance of 691 feet more or less, South 60°33'45" West, a distance of 466 feet more or less, South 59°58'00" East, a distance of 484 feet more or less to the west side of the Louisville & Nashville Railroad right of way, said point being in the arc of a 1783.20 foot radius curve to the left; thence departing said top bank of river, run Southwardly and Westwardly along the arc of said curve and along said right of way (chord bears South 06°10'39" West, 1917.31) a distance of 2024.26 feet to the PT of said curve; thence continuing along the right of way of the Louisville & Nashville Railroad as follows: South 61°07'24" West, a distance of 21.58 feet to the PC of a 1803.20 foot radius curve to the left; thence Southwardly and Eastwardly along the arc of said curve, (chord bears South 2747'26" East, 130.31 feet), a distance of 130.34 feet to the PT of said curve, thence continuing along the right of way of said Louisville & Nashville Railroad as follows: South 35°04'15" East, a distance of 411.09 feet, South 36°59'57" East, A Distance of 971.04 feet, South 37°13'29" East, a distance of 911.04 feet, South 35°57'39" East, a distance of 577.07 feet, South 37°13'29" East, a distance of 207.99 feet, South 52°46'31" East, a distance of 19.99, South 35°16'10" East, a distance of 1021.61, North 53°15'56" East, a distance of 40.00, South 43°15'28" East, a distance of 176.63, South 36°32'28" East, a distance of 153.74, South 37°59'39" East, a distance of 537.09, South 15°00'00" West, a distance of 20.00, South 36°40'56" East, a distance of 155.92, South 09°55'24" East, a distance of 819.32, to the Point of Beginning. Said property contains 736.23 acres, more or less.

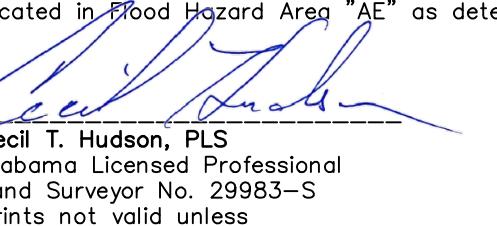
NOTES:

- 1.) Standards of Practice for Land Surveying in Alabama require that "the horizontal position of physical features must be plotted to 1/20th inch of final map scale". Dimensions "snapped" from the electronic version of this map should be considered to be no more accurate than 1/20th of the map scale noted. Critical clearance dimensions must be field checked.
- 2.) Type of Survey: Boundary & Topographic.
- 3.) Field Date(s): November 07,08,11-13 2023.
- 4.) Bearing Basis: Referenced to Alabama State Plane Coordinate System East Zone (101) NAD 83(2011) established by RTK GPS utilizing ALDOT Net as a continuously operating reference station.
- 5.) All corners are as noted.
- 6.) Setback lines shown on this plat (if any) are taken from the recorded plat of the subdivision. Setback lines established by statute, ordinances or restrictive covenants are not shown.
- 7.) This drawing does not reflect an easement or title search by the surveyor. Easements or claims of easements may exist.
- 8.) Interior improvements (if any) not located.
- 9.) Elevations on this plat are referenced to NAVD 88, established by RTK GPS utilizing ALDOT Net as a continuously operating reference station.
- 10.) This survey was accomplished using a combination of RTK GPS & Drone Mounted Lidar System. (Matrice 300 RTK Drone with L1 Lidar Sensor)



I hereby state that all parts of this survey and drawing have been completed in accordance with the current requirements of the Standards of Practice for Surveying in the State of Alabama to the best of my knowledge, information and belief.

This is to state that I have consulted the Federal Insurance Administration Flood Hazard Boundary Map No. 01101C0086 & 01101C0087 J, and dated January 07, 2015, and found that the above described property now is located in Flood Hazard Area "AE" as determined by graphic scaling.



Date: 11/07/2023

REVISIONS:	BOUNDARY & TOPOGRAPHIC SURVEY		
	PREPARED FOR SCS ENGINEERS		
	ROWE ENGINEERING & SURVEYING CONSULTING ENGINEERS		
	3502 LAUCLIN DR • SUITE B • MOBILE, AL 36604 PHONE 251-666-2766 • FAX 251-660-1040		
	TAX: 03-05-22-0-000-001.000 03-07-35-0-000-002.000 03-09-27-0-000-001.000 03-08-34-0-000-001.000	DRAWING: 52786-BL.dwg DRAWN BY: BWL CHECKED BY: CTH	PLAT DATE: January 11, 2024 SCALE: 1" = 500' SHEET NO. 1 OF 2

July 1, 2025
File No. 09222096.03

Isabel Bela
Solid Waste Branch
Land Division
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, AL 36110-2059

Subject: North Montgomery Regional Landfill
ADEM Permit No. 51-11
Mobile County, Alabama

Dear Ms. Bela,

On behalf of Lansdown Environmental, LLC (Lansdown), SCS Engineers (SCS) is submitting a request for a major modification to ADEM Permit No. 51-11. This major modification is being requested to formally permit engineering plans for the landfill, and to incorporate a variance to ADEM Admin. Code 335-13-4-.20(2)(c)2. Which requires maximum final grade of the final cover system to not exceed 25 percent or 4 to 1. Lansdown is proposing to utilize 3 to 1 final grades at the landfill.

The ADEM Form 439, Permit Drawing Set, and supporting calculations and documents have been sent to the Department under previous correspondence.

If you have any questions or concerns regarding this permit application, please contact Kevin Frinak at 334-329-4168 or by email at kfrinak@scsengineers.com.

Sincerely,



Tristan Williams
Associate Professional
SCS Engineers



Kevin Frinak
Project Professional
SCS Engineers



June 6, 2025
File No. 09222096.03

J. Jason Wilson
Solid Waste Branch
Land Division
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, AL 36110-2059

Subject: North Montgomery Regional Landfill
ADEM Permit No. 51-11
Mobile County, Alabama

Dear Mr. Wilson,

On behalf of Landsdown Environmental, LLC, SCS Engineers (SCS) is pleased to submit this revised permit renewal application package for the North Montgomery Regional Landfill, ADEM Permit No. 51-11, for your review. This is an amendment of the original permit renewal application submitted in March, 2024. Due to the updated wetlands delineation performed at the site, the landfill footprint has been re-designed to avoid impact to the newly delineated jurisdictional wetlands. Additionally, the landfill final build-out side slopes have been increased to 3:1 grades from the original 4:1 grades. The facility's Closure/Post-Closure Plan has been updated to account for the design changes.

Provided in support of this application is the completed ADEM Form 439 provided as **Attachment A**, the revised Engineering Drawing Set provided as **Attachment B**, the updated Closure/Post-Closure Plan provided as **Attachment C**, Slope Stability Calculations provided as **Attachment D**, and the Jurisdictional Determination issued by the US Army Corp of Engineers, provided as **Attachment E**.

If you have any questions or concerns regarding this permit application, please contact Kevin Frinak at 334-329-4168 or by email at kfrinak@scsengineers.com.

Sincerely,



Robert B. Curtis, P.E.
Project Director
SCS Engineers



Kevin Frinak
Project Professional
SCS Engineers

RBC/KMF:afv



ATTACHMENT A

**SOLID WASTE DISPOSAL FACILITY
PERMIT APPLICATION PACKAGE**

April 18, 2025

M E M O R A N D U M

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/ss/sabj

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)
 Construction and Demolition Landfill (C/DLF)
 CCR Landfill (CCRLF)
 CCR Surface Impoundment (CCRSI)
 Other (explain) _____

2. Facility Name _____ Landsdown Environmental Solutions LLC

3. Applicant/Permittee:

Name: _____ Landsdown Environmental Solutions LLC

Address: _____ 170 County Rd. 40
_____ Lowndesboro, AL 36752

Telephone: _____ (540) 379-6990

If applicant/permittee is a Corporation, please list officers:

N/A

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

Township T17N Range R17E
Section 22,26,27,35,35 County Montgomery

5. Land Owner:

Name: _____ Same as Permittee

Address: _____

Telephone: _____

(Attach copy of agreement from landowner if applicable.)

Solid Waste Permit Application
Page 2

6. Contact Person:

Name Vincenzo Labarbera

Position or
Affiliation Member

Address: 170 County Rd. 40
Lowndesboro, AL 36752

Telephone: (540) 379-6990

7. Size of Facility: Size of Disposal Area(s):

Approximately 700 Acres 129.79 Acres

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

State of Alabama

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

Tons/Day 2,500 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.):

Non-putrescible and non-hazardous construction and demolition waste, discarded tires,

and rubbish defined by ADEM Rule 335-13-1-03

SIGNATURE (Responsible official of permit applicant):

 TITLE: _____

Vincenzo Labarbera
(please print or type name)

DATE: 6/6/2025

ADDITIONAL REQUIRED INFORMATION

Applicants seeking to obtain a permit to construct and/or continue to operate a municipal solid waste (MSW) landfill, industrial landfill, construction and demolition (C/D) 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 and C/D 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.

ATTACHMENT B

LANDSDOWN ENVIRONMENTAL, LLC

LANDSDOWN ENVIRONMENTAL SOLUTIONS

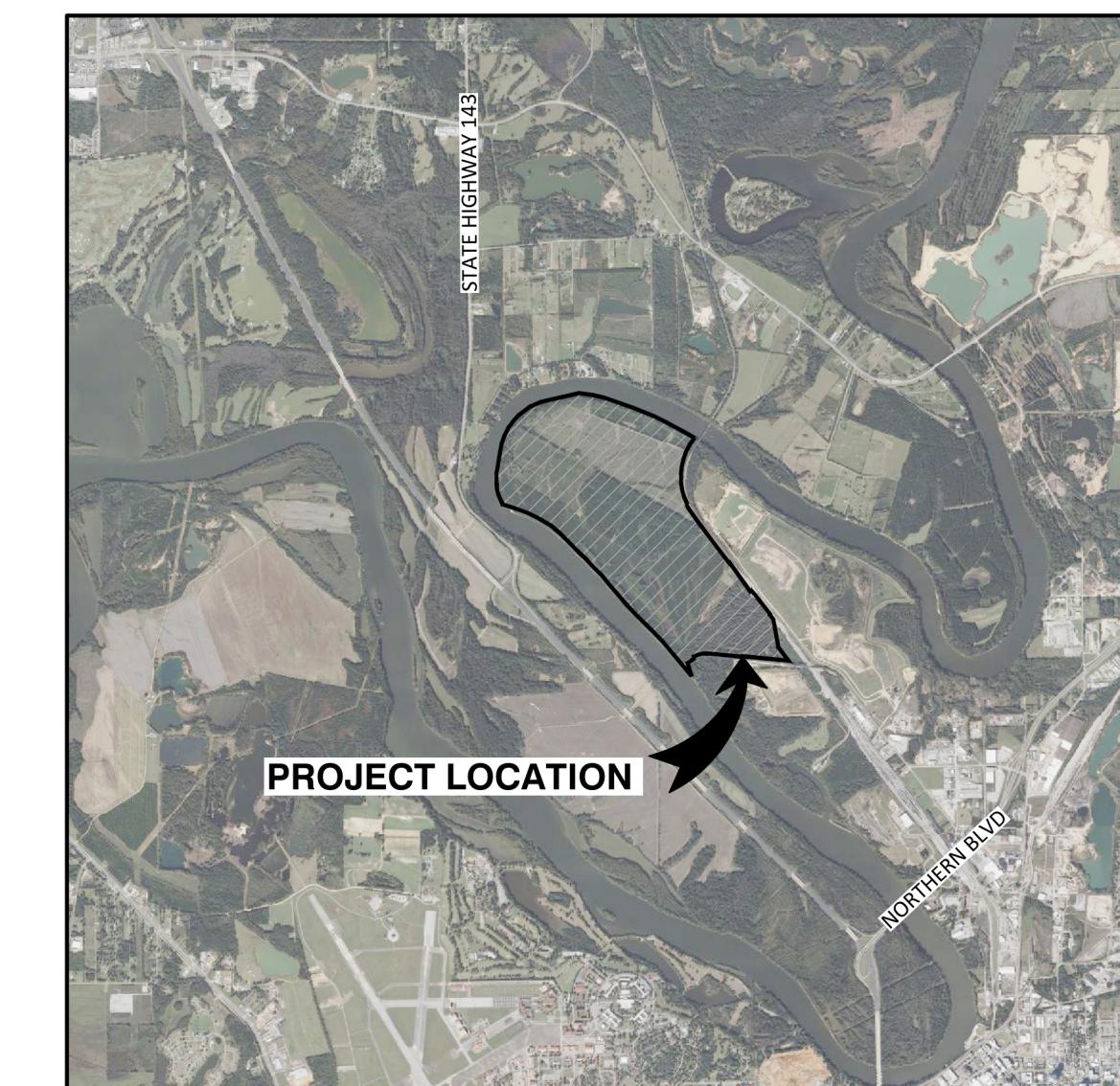
PERMIT DRAWINGS

MONTGOMERY COUNTY, ALABAMA

APRIL 2024
REVISED MAY 2025



PREPARED FOR:
LANDSDOWN ENVIRONMENTAL, LLC
170 COUNTY ROAD 40 E
LOWNDESBORO, AL 36752



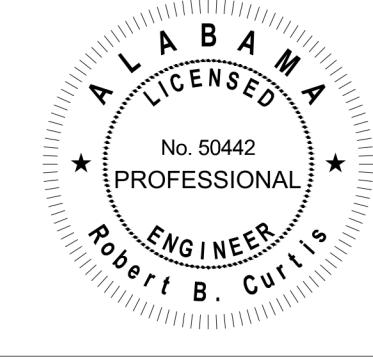
LOCATION MAP

INDEX OF SHEETS	
SHEET NO.	SHEET TITLE
01	COVER
02	GENERAL NOTES AND ABBREVIATIONS
03	OVERALL SITE PLAN
04	CELL 1 - PROPOSED BASE GRADES
05	CELL 1 - PROPOSED FINAL COVER PLAN
06	BASE GRADES
07	FINAL COVER PLAN
08	SECTIONS - I
09	SECTIONS - II
10	DETAILS - I

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
1 ST. LOUIS STREET, SUITE 1001
MOBILE, ALABAMA 36602
PH. (251) 283-6444 FAX. (813) 623-6757
ALABAMA FIRM REGISTRATION: RY-4892
WWW.SCSENGINEERS.COM
SCS PROJECT NO. 09222096.03

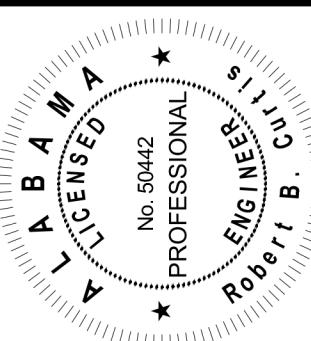
ISSUED FOR PERMIT
05/05/2025

This item has been digitally signed and sealed by
Robert B. Curtis, on May 5, 2025. Printed copies
of this document are not considered signed and
sealed and the signature must be verified on any
electronic copies.



ROBERT B. CURTIS, P.E.
LICENSE NO. 50442

This item has been digitally signed and sealed by Robert B. Curtis on the date indicated on the cover page. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

**GENERAL:**

1. SITE IS A CONSTRUCTION AND DEMOLITION (C&D) LANDFILL.
2. DEVIATIONS FROM THESE PLANS AND/OR TECHNICAL SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER OR OWNER MAY CAUSE THE WORK TO BE UNACCEPTABLE AND WILL BE ADJUSTED OR REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. ACTUAL DIMENSIONS AND LOCATIONS MAY VARY BASED ON FIELD LOCATIONS WITH PRIOR APPROVAL OF THE ENGINEER.
4. CONTRACTOR SHALL PREPARE AND MAINTAIN THE SOIL STORAGE AREA IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF BORROW AND HAUL ROADS USED FOR THE PROJECT. AT COMPLETION OF THE PROJECT, ALL ROADS USED DURING CONSTRUCTION WILL BE LEFT AS GOOD OR BETTER THAN INITIAL CONDITION.
6. FEMA 100-YEAR FLOOD ZONE BOUNDARY OBTAINED FROM NATIONAL FLOOD INSURANCE PROGRAM (NFIP) MAP REVISED JANUARY 7, 2015, MAP NUMBER 01101C0087J, MONTGOMERY COUNTY, ALABAMA.
7. GAS MONITORING POINTS PROPOSED FOR BAR-HOLE PUNCH METHOD.

EARTHWORK:

1. EXCAVATION IS UNCLASSIFIED AND INCLUDES REMOVAL OF EARTH FILLS, RUBBLE, AND OTHER MATERIALS ENCOUNTERED IN EXCAVATION AND GRADING OPERATIONS TO DEPTH AND EXTENT SHOWN ON DRAWINGS OR SPECIFIED. THE ENGINEER SHALL BE THE FINAL AUTHORITY AND SHALL MAKE THE FINAL DECISION DURING CONSTRUCTION AS TO THE DEPTH AND EXTENT TO WHICH MATERIALS MUST BE REMOVED AND REPLACED.
2. LIMIT DIRT, DUST, NOISE AND OTHER OBJECTIONABLE NUISANCES PER PERMIT REQUIREMENTS.
3. SOIL BACKFILL MATERIALS (ONLY) SHALL BE FREE OF DELETERIOUS MATERIAL (STICKS, ROOTS, WASTE, ETC.) AND ROCK FRAGMENTS, BOULDERS, OR COBBLES GREATER THAN 1/2 INCH IN SIZE.
4. ALL SOIL BACKFILL MATERIAL HANDLING (EXCAVATION, HAULING, STOCKPILING, ETC.) WILL BE COMPLETED BY THE CONTRACTOR.

UTILITIES:

1. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK PRIOR TO CONSTRUCTION. ALL DAMAGE MADE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL COORDINATION AND REQUIRED UTILITY COMPANY TEMPORARY PROTECTION SHALL BE AT THE CONTRACTOR'S EXPENSE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE UNINTERRUPTED SERVICE AND REPLACEMENT OF DAMAGED UTILITIES.

SURVEYING:

1. HORIZONTAL DATUM IS BASED ON THE ALABAMA STATE PLANE COORDINATE SYSTEM (EAST ZONE) NAD 83 (2011). VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) 1988.
2. SURVEY BENCHMARKS, MONUMENTS AND OTHER REFERENCE POINTS SHALL BE PROTECTED FROM DAMAGE AND DISPLACEMENT. IF DISTURBED OR DESTROYED, THEY WILL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
3. ALL REQUESTED SURVEY DATA MUST BE PROVIDED TO THE ENGINEER IN ALABAMA STATE PLANE COORDINATES AND BE SIGNED AND SEALED BY A STATE OF ALABAMA LICENSED SURVEYOR.

SITE EXCAVATION, STOCKPILING, BACKFILLING, COMPACTION, AND GRADING:

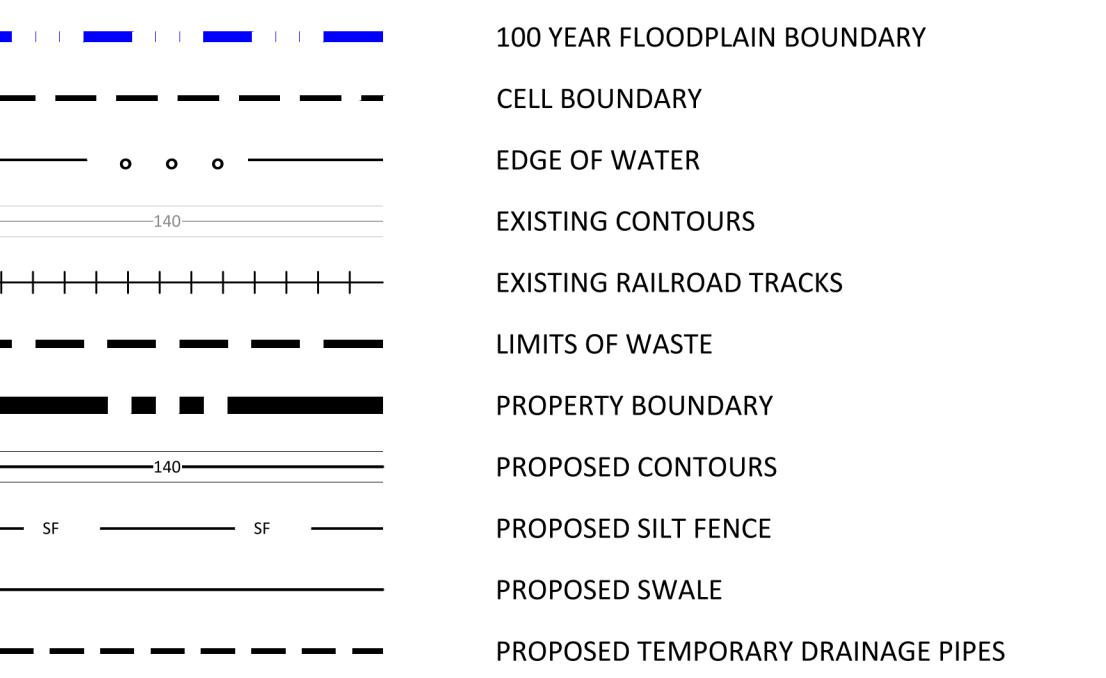
1. SOIL USED IN CONSTRUCTION SHALL BE STOCKPILED ON SITE IN AREAS IDENTIFIED BY THE OWNER.
2. PLACEMENT AND COMPACTION OF SOIL IN THE CONSTRUCTION AREA SHALL BE COMPLETED BY THE CONTRACTOR TO DEPTHS AND DIMENSIONS SHOWN ON PLANS. COMPACTION SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS WHEN PROVIDED.

EROSION AND SETTLEMENT CONTROL:

1. INSTALL EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENTATION AND DAMAGE FROM STORMWATER RUNOFF TO ADJACENT AREAS AS NECESSARY AS DICTATED BY ACTUAL SITE CONDITIONS OR AS DIRECTED BY THE OWNER OR ENGINEER AND AS SHOWN ON THE DRAWINGS.
2. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY THE OWNER OR ENGINEER.
3. EROSION CONTROL FENCING MUST MEET THE REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION STATE OF ALABAMA STANDARD SPECIFICATIONS. EROSION CONTROL MEASURES WILL BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES.
4. EROSION AND CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED TO THE SATISFACTION OF THE ENGINEER.

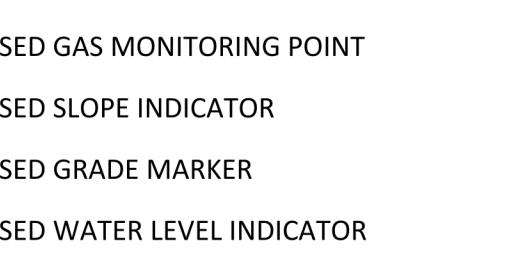
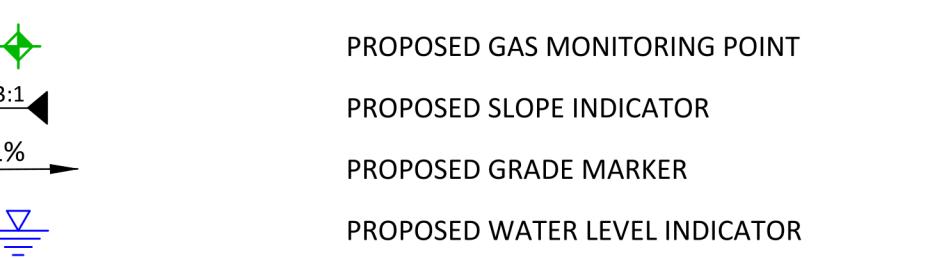
ACCESS AND TRAFFIC CONTROL:

1. THE PRIMARY ACCESS ROAD WILL VARY DEPENDING ON CLOSURE STAGE AND WASTE FILLING OPERATIONS.
2. ACCESS ROADS MUST BE MAINTAINED DURING CONSTRUCTION PERIOD BY THE CONTRACTOR.
3. CONTRACTOR TO COORDINATE SITE ACCESS WITH THE OWNER. CONTRACTOR TO PROVIDE SIGNAGE AND SIGNALS OR SIGNAL PERSON(S) SO NORMAL SITE OPERATIONS CAN BE MAINTAINED.

LINETYPES**ABBREVIATIONS**

C&D CONSTRUCTION AND DEMOLITION

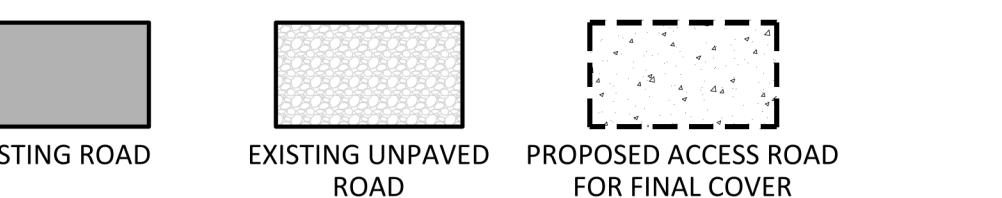
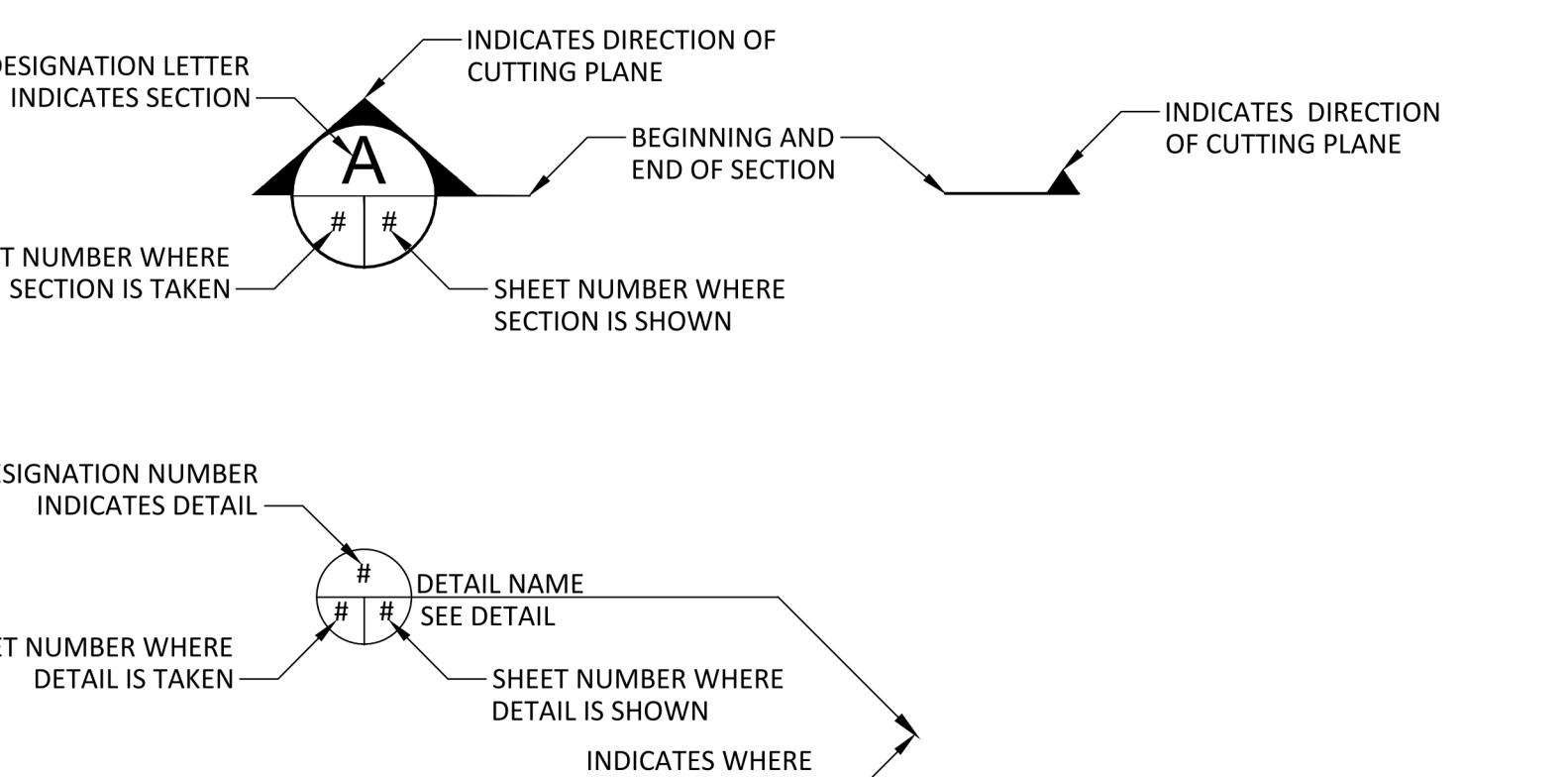
CHK BY RBC

**SYMBOLS AND HATCHES****NOTES:**

1. BLACK OR GRAY VERSIONS OF COLORED LINES SHOWN HERE INDICATE EXISTING CONDITIONS UNLESS OTHERWISE INDICATED.

NOTES:

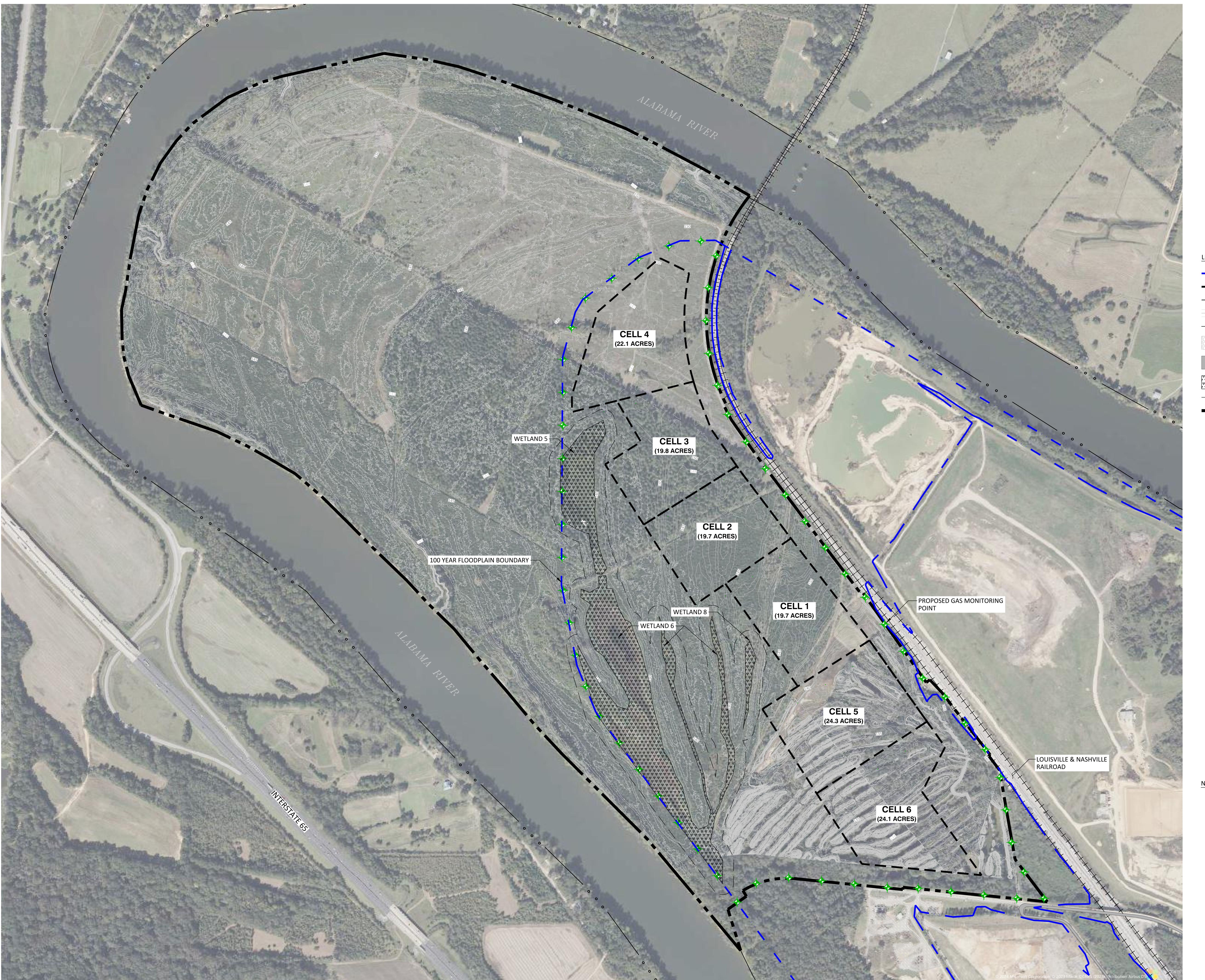
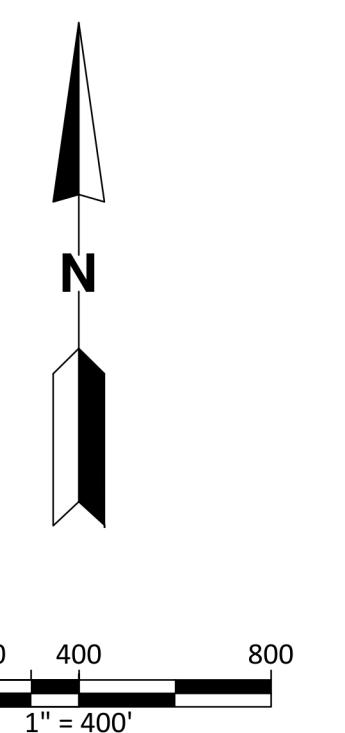
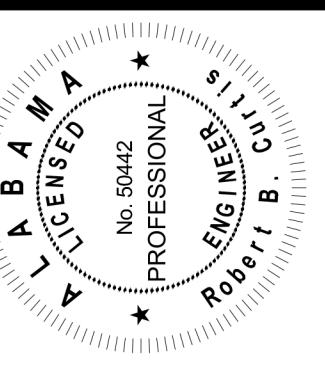
1. COLORED VERSIONS OF SYMBOLS SHOWN HERE INDICATE PROPOSED.
2. BLACK OR GRAY VERSIONS OF SYMBOLS SHOWN HERE INDICATE EXISTING CONDITIONS.

SECTION AND DETAIL DESIGNATION

SHEET TITLE: GENERAL NOTES AND ABBREVIATIONS
PROJECT TITLE: LANDSDOWN ENVIRONMENTAL SOLUTIONS PERMIT DRAWINGS

SCS ENGINEERS	STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS	3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619	DRAWN BY: TMR/EAM	QA/QC BY: TMR/EAM
		PH (813) 621-0880 FAX NO. (813) 624-6757	CHK BY: RBC	APP BY: RBC
DATE: 05/05/2025	ISSUED FOR PERMIT	05/05/2025		
DRAWING NO. 02	02 of 10			

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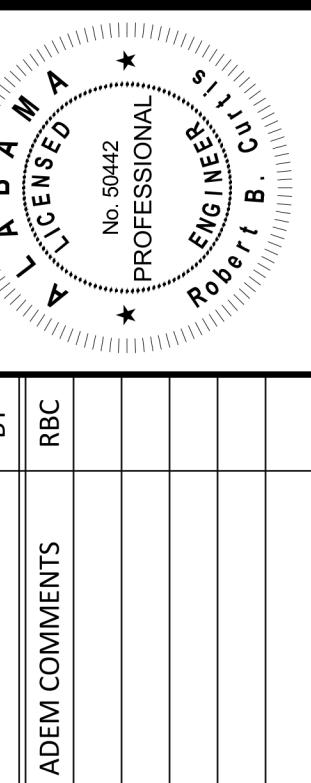
LEGEND:	
	100 YEAR FLOODPLAIN BOUNDARY
	CELL BOUNDARY
	EDGE OF WATER
	EXISTING CONTOURS
	EXISTING RAILROAD TRACKS
	EXISTING UNPAVED ROAD
	EXISTING ROAD
	EXISTING WETLAND
	100' WETLAND BUFFER
	PROPERTY BOUNDARY
	PROPOSED GAS MONITORING POINT

SHEET TITLE		OVERALL SITE PLAN	
PROJECT TITLE		LANDSDOWN ENVIRONMENTAL SOLUTIONS PERMIT DRAWINGS	
CLIENT	LANDSDOWN ENVIRONMENTAL, LLC 170 COUNTY ROAD 40 E LOWNDESBORO, AL 36752		
SCS ENGINEERS	STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 392 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RV-4892		
NOTES:	<p>1. EXISTING TOPOGRAPHY COMPILED FROM ROWE ENGINEERING AND SURVEYING AND EQUATOR STUDIOS. FLIGHT DATE NOVEMBER 7TH, 2023.</p> <p>2. AERIAL IMAGERY PROVIDED BY 2024 MICROSOFT CORPORATION.</p> <p>3. GAS MONITORING POINTS PROPOSED EVERY 300-FT AND 5-FT AWAY FROM PROPERTY BOUNDARY/FLOOD PLAIN BOUNDARY. TO BE MONITORED AS CELLS ARE CONSTRUCTED.</p> <p>4. REFER TO OPERATIONS PLAN FOR ADDITIONAL GAS MONITORING PROCEDURES.</p> <p>5. CONSTRUCTION LEVEL DRAWINGS TO BE PREPARED PRIOR TO DEVELOPMENT. CELL SIZE AND SEQUENCE MAY BE ADJUSTED AT THAT TIME.</p> <p>6. JURISDICTIONAL WETLAND DELINEATION PROVIDED BY VANASSE HANGEN BRUSTLIN, INC AND APPROVED BY THE US ARMY CORP OF ENGINEERS ON 4/17/2025 (SAM-2024-00790-AMR).</p>		
DATE:	MAY 5, 2025		
DRAWING NO.	03		
SHEET	03 of 10		

ISSUED FOR PERMIT

05/05/2025

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0 50 100 200
1" = 100'

LEGEND:	REV	DATE	DESCRIPTION	CHK BY
100 YEAR FLOODPLAIN BOUNDARY				RBC
CELL BOUNDARY				
EXISTING CONTOURS				
EXISTING RAILROAD TRACKS				
EXISTING UNPAVED ROAD				
LIMITS OF WASTE				
PROPERTY BOUNDARY				
PROPOSED CONTOURS				
PROPOSED GAS MONITORING POINT				
PROPOSED SILT FENCE				
PROPOSED TEMPORARY DRAINAGE PIPES				

CELL 1 - PROPOSED BASE GRADES
PROJECT TITLE
LANDSDOWN ENVIRONMENTAL SOLUTIONS PERMIT DRAWINGS

CLIENT
LANDSDOWN ENVIRONMENTAL, LLC
170 COUNTY ROAD 40 E
LOWNDESBORO, AL 36752

SCS ENGINEERS	STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS	DRAWN BY: TMR/EAM	QA BY: TMR/EAM
	392 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0680 FAX NO. (813) 623-6757		
PROJECT NO.	09222096.03	CHK BY: RBC	APP BY: RBC
CADD FILE:	09222096.03_CELL1		
DATE:	MAY 5, 2025		
DRAWING NO.	04		

NOTES:

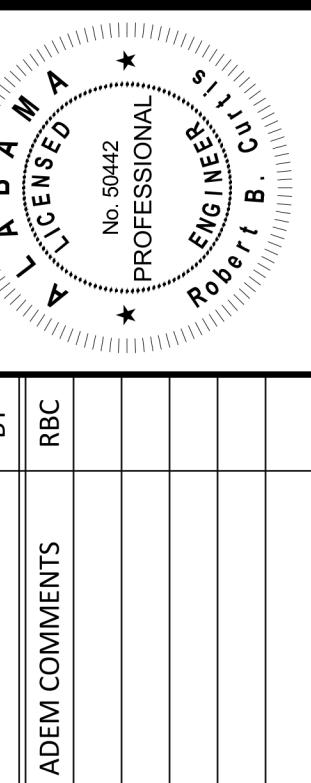
- EXISTING TOPOGRAPHY COMPILED FROM ROWE ENGINEERING AND SURVEYING AND EQUATOR STUDIOS. FLIGHT DATE NOVEMBER 7TH, 2023.
- GAS MONITORING POINTS PROPOSED EVERY 300-FT AND 5-FT AWAY FROM PROPERTY BOUNDARY/FLOOD PLAIN BOUNDARY. TO BE MONITORED AS CELLS ARE CONSTRUCTED.
- INTERMEDIATE BERMS TO BE CONSTRUCTED BETWEEN CELLS TO MANAGE SURFACE WATER.
- DRAINAGE PIPES TO BE USED DURING CONSTRUCTION OF CELLS FOR DEWATERING PURPOSES.
- CONSTRUCTION LEVEL DRAWINGS TO BE PREPARED PRIOR TO DEVELOPMENT. CELL SIZE AND SEQUENCE MAY BE ADJUSTED AT THAT TIME.
- JURISDICTIONAL WETLAND DELINEATION PROVIDED BY VANASSEN BRUSTLIN, INC AND APPROVED BY THE US ARMY CORP OF ENGINEERS ON 4/17/2025 (SAM-2024-00790-AMR).

ISSUED FOR PERMIT

05/05/2025

04 of 10

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0 50 100 200
1" = 100'

LEGEND:	REV	DATE	DESCRIPTION	CHK BY
100 YEAR FLOODPLAIN BOUNDARY				RBC
CELL BOUNDARY				
EXISTING CONTOURS				
EXISTING RAILROAD TRACKS				
EXISTING UNPAVED ROAD				
LIMITS OF WASTE				
PROPERTY BOUNDARY				
PROPOSED ACCESS ROAD FOR FINAL COVER				
PROPOSED CONTOURS				
PROPOSED GAS MONITORING POINT				
PROPOSED SILT FENCE				

SHEET TITLE		PROJECT TITLE	
CELL 1 - PROPOSED FINAL COVER PLAN		LANDSDOWN ENVIRONMENTAL SOLUTIONS PERMIT DRAWINGS	
170 COUNTY ROAD 40 E		LOWNDESBORO, AL 36752	

SCS ENGINEERS	CLIENT	DRAWN BY:		CHECKED BY:	
		TM/R/EAM	TM/R/KF	TM/R/EAM	TM/R/KF
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0080 FAX NO. (813) 623-6757	LANDSDOWN ENVIRONMENTAL, LLC 170 COUNTY ROAD 40 E LOWNDESBORO, AL 36752				
PROJ. NO.					
DSN. BY:	09222096.03	CHK. BY:	TM/R/EAM	APR. BY:	TM/R/KF
			RBC		
CADD FILE:	09222096.03_CELL1_BO	DATE:	MAY 5, 2025	DRAWING NO.	05

NOTES:

- EXISTING TOPOGRAPHY COMPILED FROM ROWE ENGINEERING AND SURVEYING AND EQUATOR STUDIOS. FLIGHT DATE NOVEMBER 7TH, 2023.
- GAS MONITORING POINTS PROPOSED EVERY 300-FT AND 5-FT AWAY FROM PROPERTY BOUNDARY/FLOOD PLAIN BOUNDARY. TO BE MONITORED AS CELLS ARE CONSTRUCTED.
- INTERMEDIATE BERMS TO BE CONSTRUCTED BETWEEN CELLS TO MANAGE SURFACE WATER.

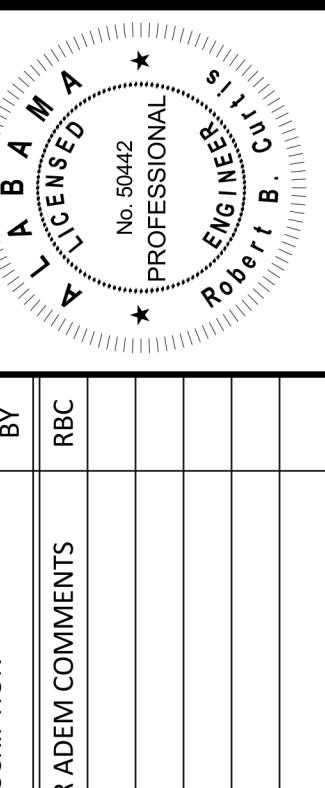
ISSUED FOR PERMIT

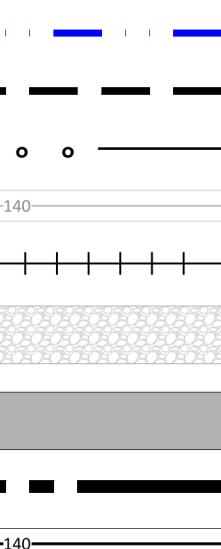
05/05/2025

05

of 10

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cannot be verified on any electronic copies.



D: 

- 100 YEAR FLOODPLAIN BOUNDARY
- CELL BOUNDARY
- EDGE OF WATER
- EXISTING CONTOURS
- EXISTING RAILROAD TRACKS
- EXISTING UNPAVED ROAD
- EXISTING ROAD
- PROPERTY BOUNDARY
- PROPOSED CONTOURS
- PROPOSED GAS MONITORING POINT

WILDSIDE ENVIRONMENTAL, LLC
170 COUNTY ROAD 40 E
LOWNDESBORO, AL 36752

EXISTING TOPOGRAPHY COMPILED FROM ROWE ENGINEERING
AND SURVEYING AND EQUATOR STUDIOS.
FLIGHT DATE NOVEMBER 7TH, 2023.

PROPOSED LANDFILL GAS PROBES TO BE INSTALLED EVERY 300-FT
AND 5-FT AWAY FROM PROPERTY BOUNDARY/FLOOD PLAIN
BOUNDARY. GAS PROBES TO BE MONITORED AS CELLS ARE
CONSTRUCTED.

INTERMEDIATE BERMS TO BE CONSTRUCTED BETWEEN CELLS TO
MANAGE SURFACE WATER.

CONSTRUCTION LEVEL DRAWINGS TO BE PREPARED PRIOR TO
DEVELOPMENT. CELL SIZE AND SEQUENCE MAY BE ADJUSTED AT
THAT TIME.

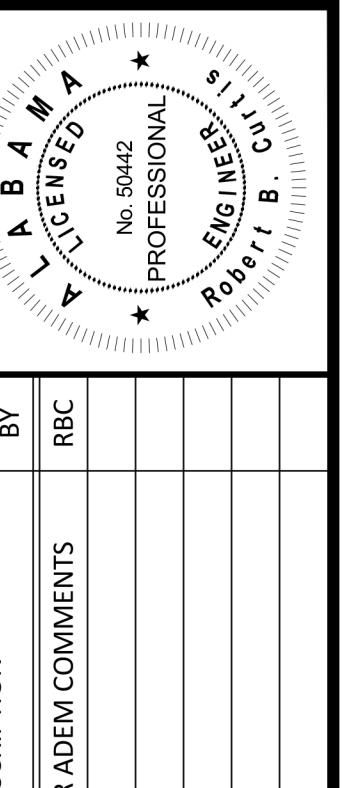
ISSUED FOR PERMIT

05/2025

06

ET 06 of 10

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0 150 300 600
1" = 300'

LEGEND:

- 100 YEAR FLOODPLAIN BOUNDARY
- CELL BOUNDARY
- EDGE OF WATER
- EXISTING CONTOURS
- EXISTING RAILROAD TRACKS
- EXISTING UNPAVED ROAD
- EXISTING ROAD
- PROPERTY BOUNDARY
- PROPOSED CONTOURS
- PROPOSED GAS MONITORING POINT

SHEET TITLE

FINAL COVER PLAN

REV

DATE

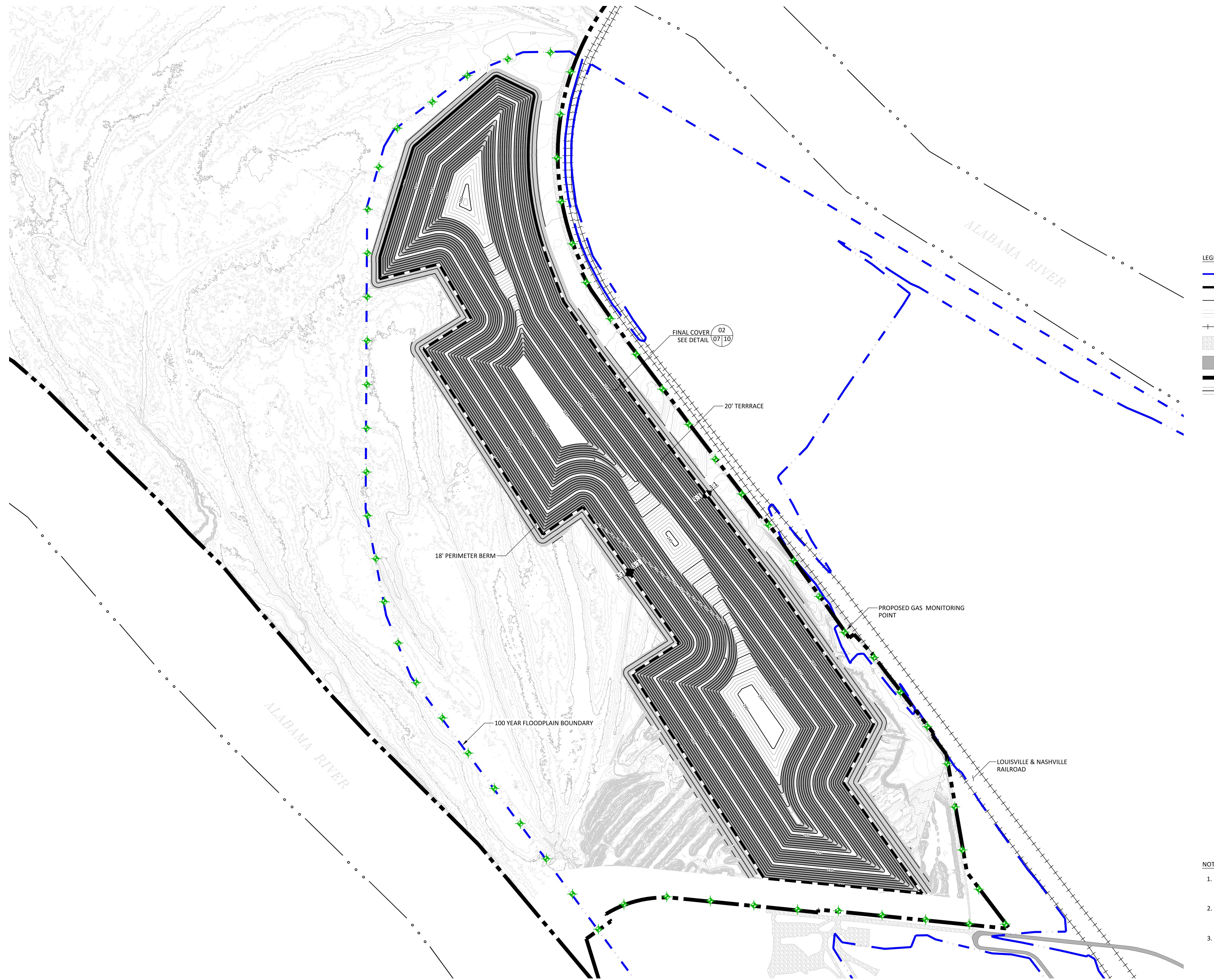
DESCRIPTION

CHK BY

RBC

PROJECT TITLE

LANDSDOWN ENVIRONMENTAL
SOLUTIONS PERMIT DRAWINGS



NOTES:

- EXISTING TOPOGRAPHY COMPILED FROM ROWE ENGINEERING AND SURVEYING AND EQUATOR STUDIOS. FLIGHT DATE NOVEMBER 7TH, 2023.
- GAS MONITORING POINTS PROPOSED EVERY 300-FT AND 5-FT AWAY FROM PROPERTY BOUNDARY/FLOOD PLAIN BOUNDARY. TO BE MONITORED AS CELLS ARE CONSTRUCTED.
- INTERMEDIATE BERMS TO BE CONSTRUCTED BETWEEN CELLS TO MANAGE SURFACE WATER.

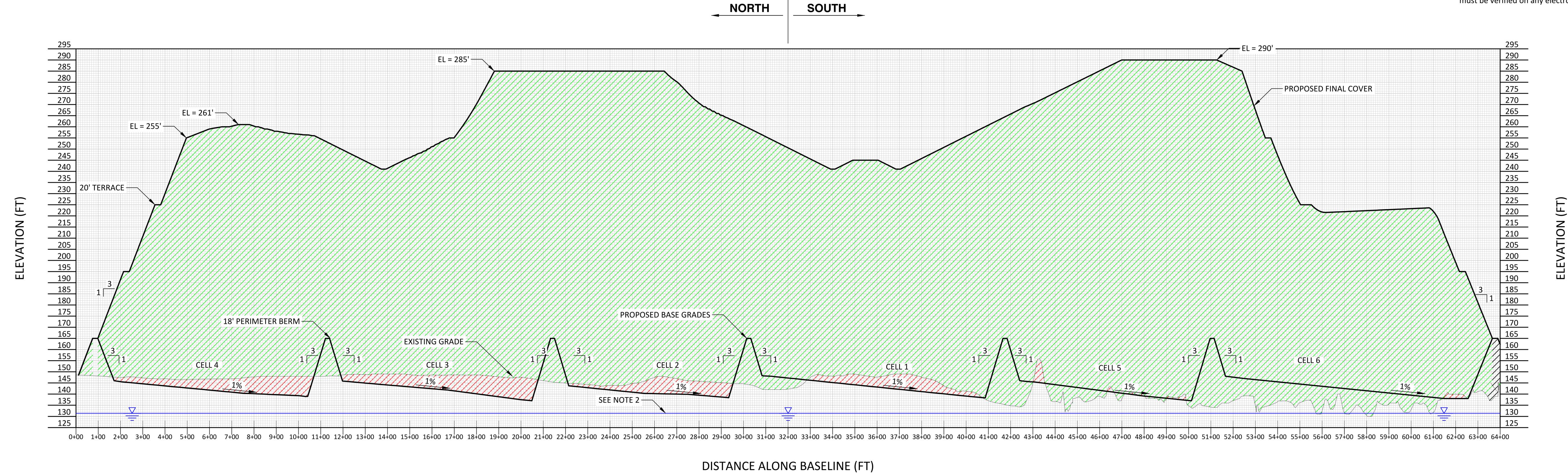
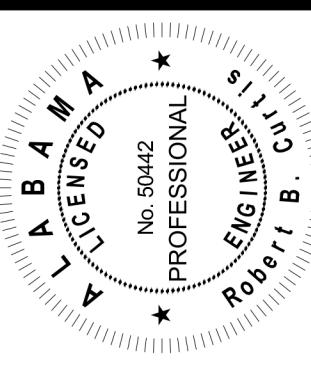
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05/05/2025

07

SHEET 07 of 10

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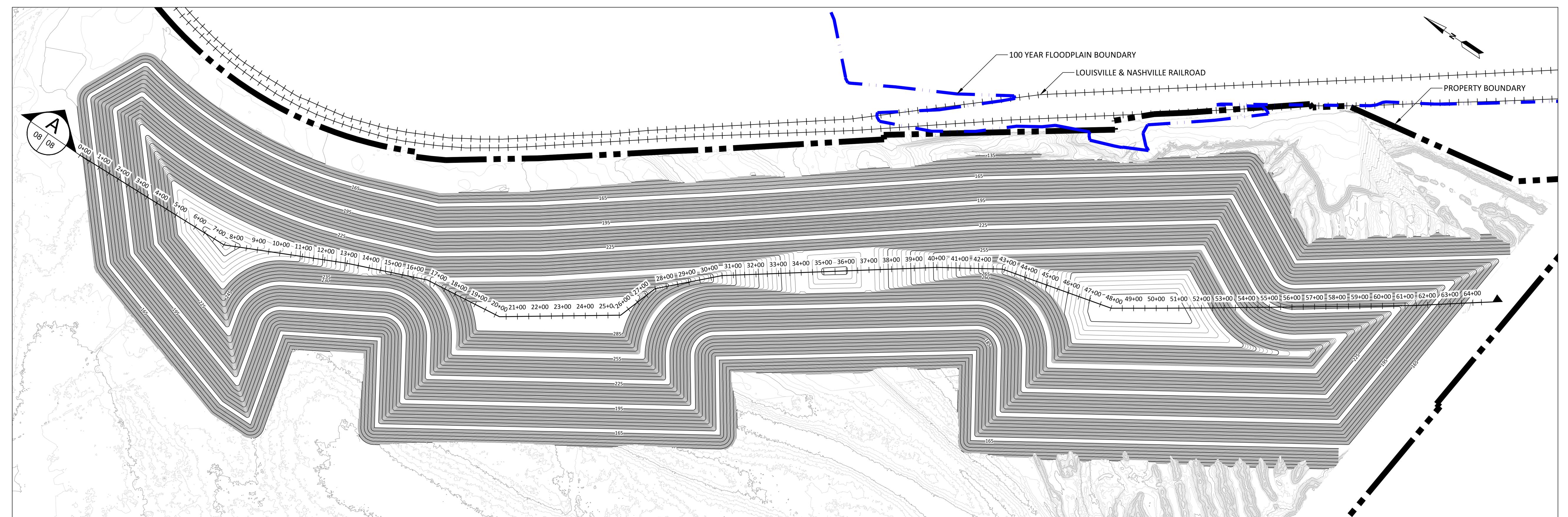


SECTION
HORIZONTAL SCALE: 1" = 250'
VERTICAL SCALE: 1" = 25'

A
08 08

NOTES:

1. GRADING TO TIE-INTO EXISTING GRADE ELEVATION. AERIAL TOPOGRAPHIC IMAGERY NOT COLLECTED DUE TO NEARBY MAXWELL AIR FORCE BASE NO FLIGHT ZONE RESTRICTIONS.
2. REPRESENTATIVE SEASONAL HIGH GROUND WATER ELEVATION AT 131.11 FT NVGD. 02419988, USGS GAGE ALABAMA RIVER AT MONTGOMERY, AL GAGE HEIGHT AT 7AM. OBTAINED FROM HYDROGEOLOGIC EVALUATION REPORT PREPARED BY GOODWIN, MILLS & CAWOOD ENVIRONMENTAL CONSULTANTS, INC. ON JULY 2007.



SCS ENGINEERS	STEARNS, CONRAD AND SCHMIDT	CONSULTING ENGINEERS	www.tmr.com
	3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619		
PROJECT NO.	PH (813) 621-1080	FAX NO. (813) 624-6757	
DSN NO.	09222096.03	CHK BY:	TM/R/EAM
DSN BY:		APP BY:	RBC
CADD FILE:	09222096.03_ST5		
DATE:	MAY 5, 2025		
DRAWING NO.	08		

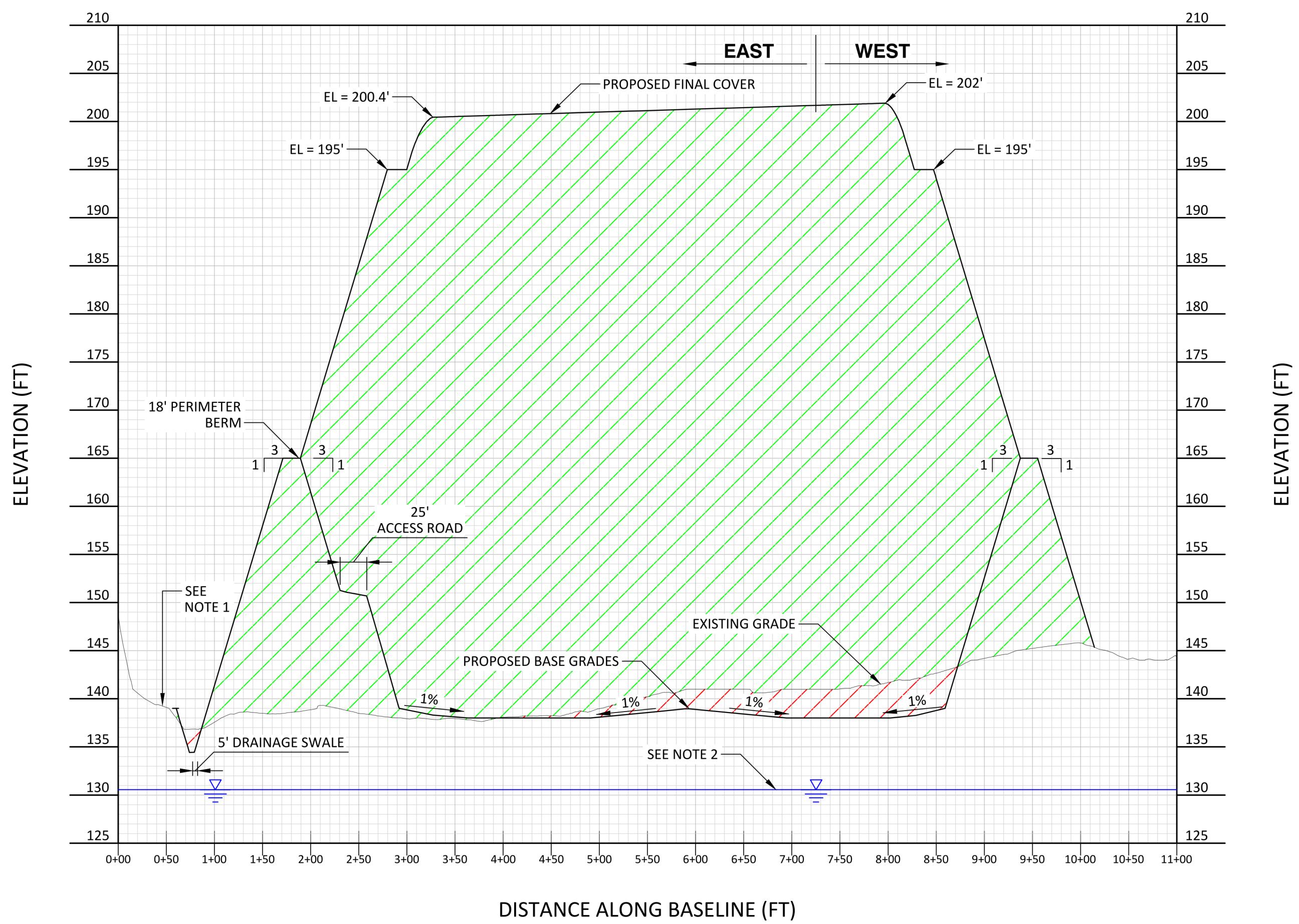
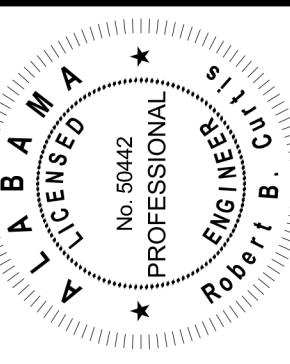
ISSUED FOR PERMIT

05/05/2025

08

SHEET 08 of 10

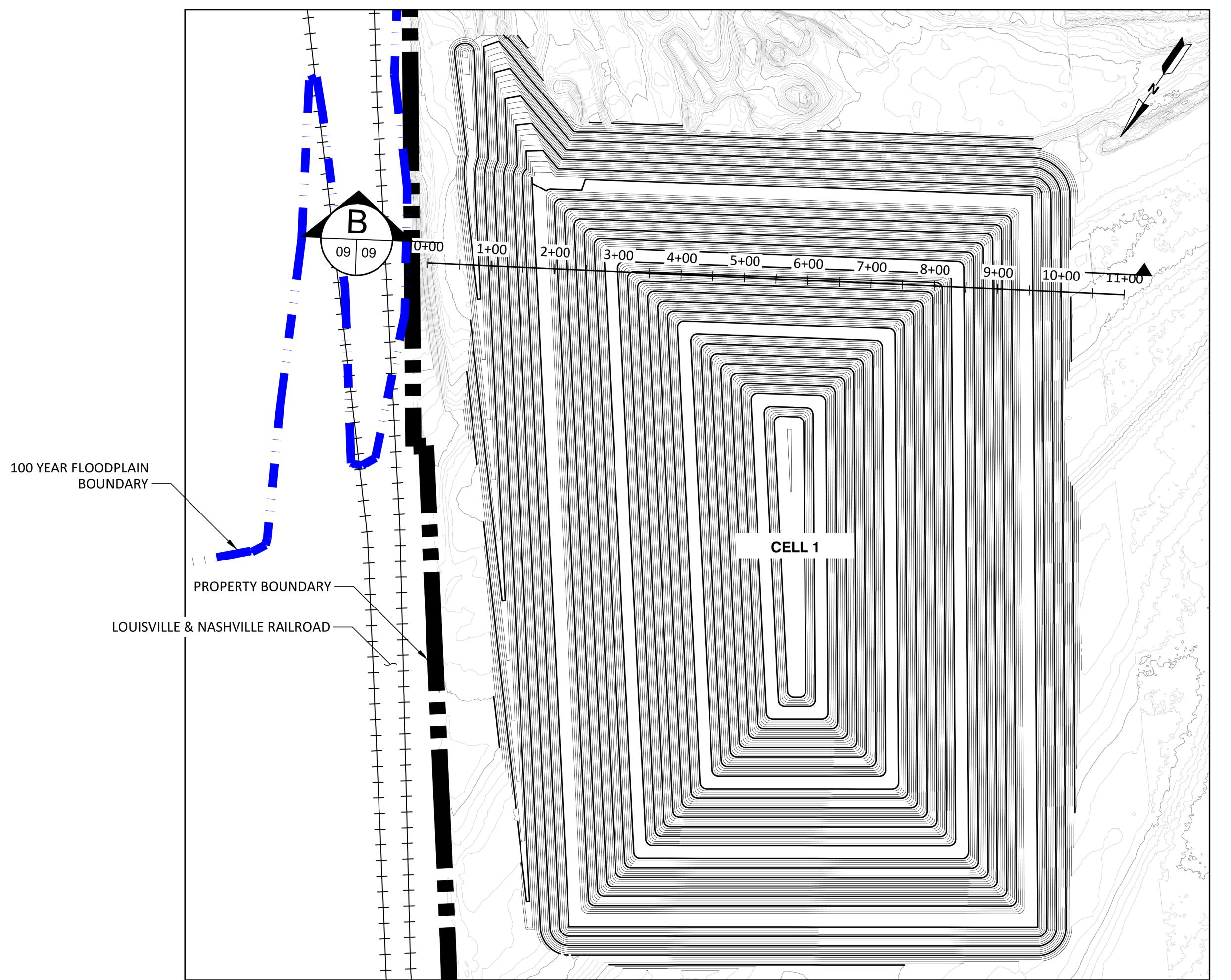
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SECTION B
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 10'

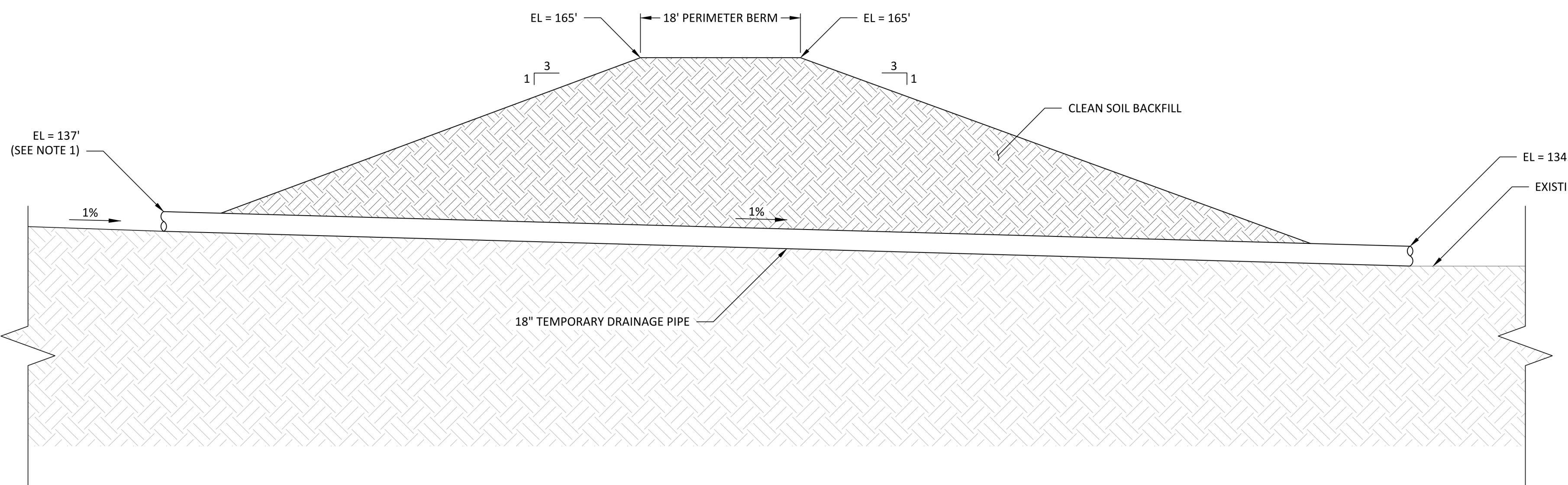
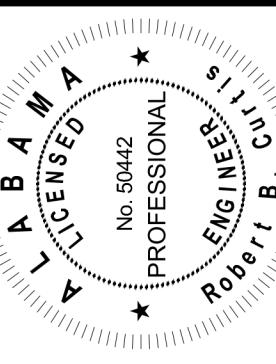
NOTES:

1. GRADING TO TIE-INTO EXISTING GRADE ELEVATION. AERIAL TOPOGRAPHIC IMAGERY NOT COLLECTED DUE TO NEARBY MAXWELL AIR FORCE BASE NO FLIGHT ZONE RESTRICTIONS.
2. REPRESENTATIVE SEASONAL HIGH GROUND WATER ELEVATION AT 131.11 FT NVGD. 02419988, USGS GAGE ALABAMA RIVER AT MONTGOMERY, AL GAGE HEIGHT AT 7AM. OBTAINED FROM HYDROGEOLOGIC EVALUATION REPORT PREPARED BY GOODWIN, MILLS & CAWOOD ENVIRONMENTAL CONSULTANTS, INC. ON JULY 2007.



SCS ENGINEERS STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0880 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RV-4892		CLIENT LANDSDOWN ENVIRONMENTAL, LLC	DATE 05/05/2025	REV △	DESCRIPTION REVISED PER ADM COMMENTS	CHK BY RBC
PROJ. NO. 09222096.03_STS_2	DRAWN BY TMR/EAM	QA BY TMR/EAM	APPR BY RBC			
DSN BY TMR/KF	CHK BY RBC					
CADD FILE: 09222096.03_STS_2						
DATE: MAY 5, 2025						
DRAWING NO. 09						
ISSUED FOR PERMIT 05/05/2025						
SHEET 09 of 10						

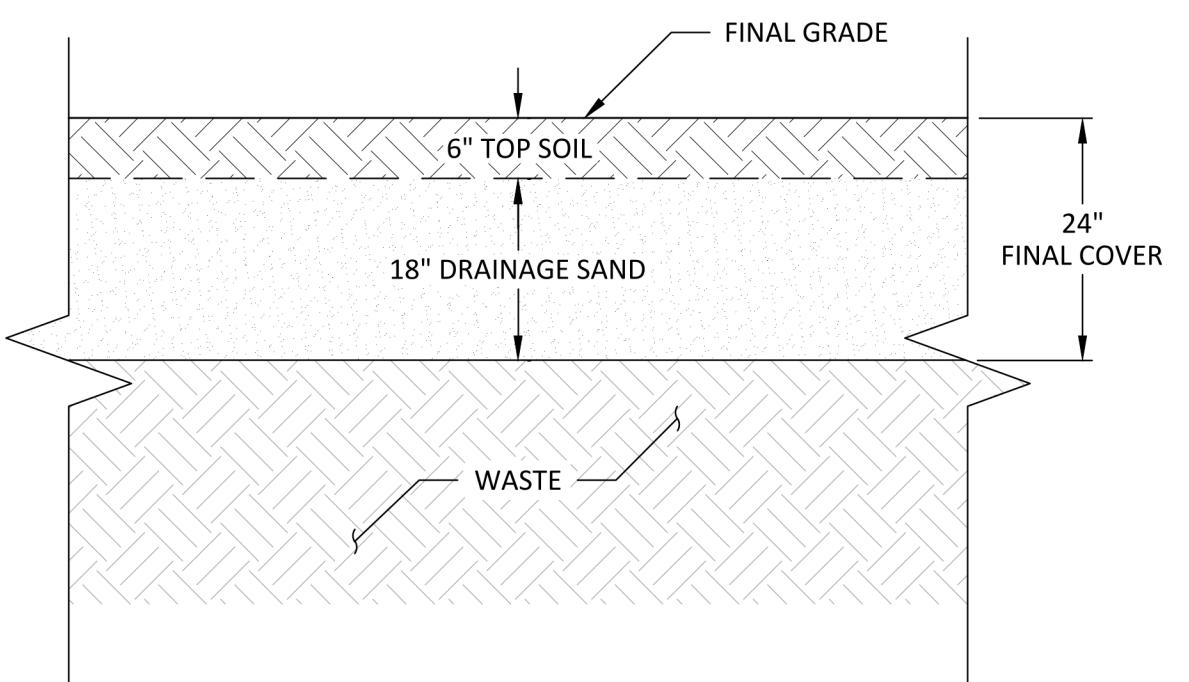
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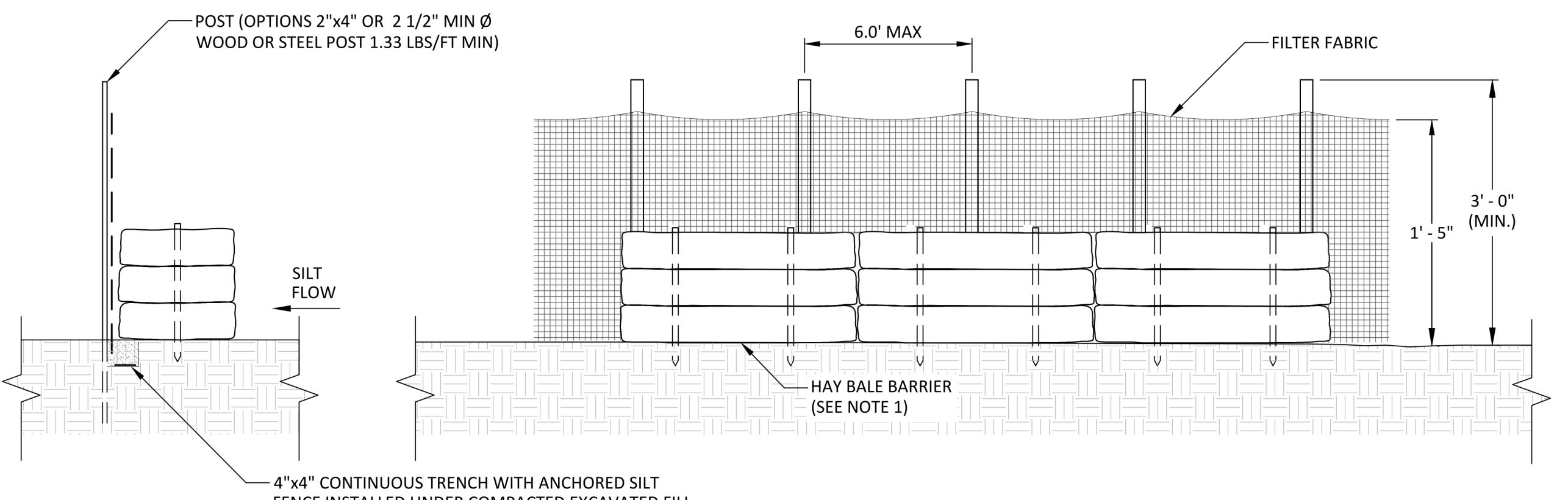
NOTES:

1. TEMPORARY STORMWATER PIPE TO BE CAPPED PRIOR TO FILLING OF CELL.

PERIMETER BERM 01
NOT TO SCALE
04 10

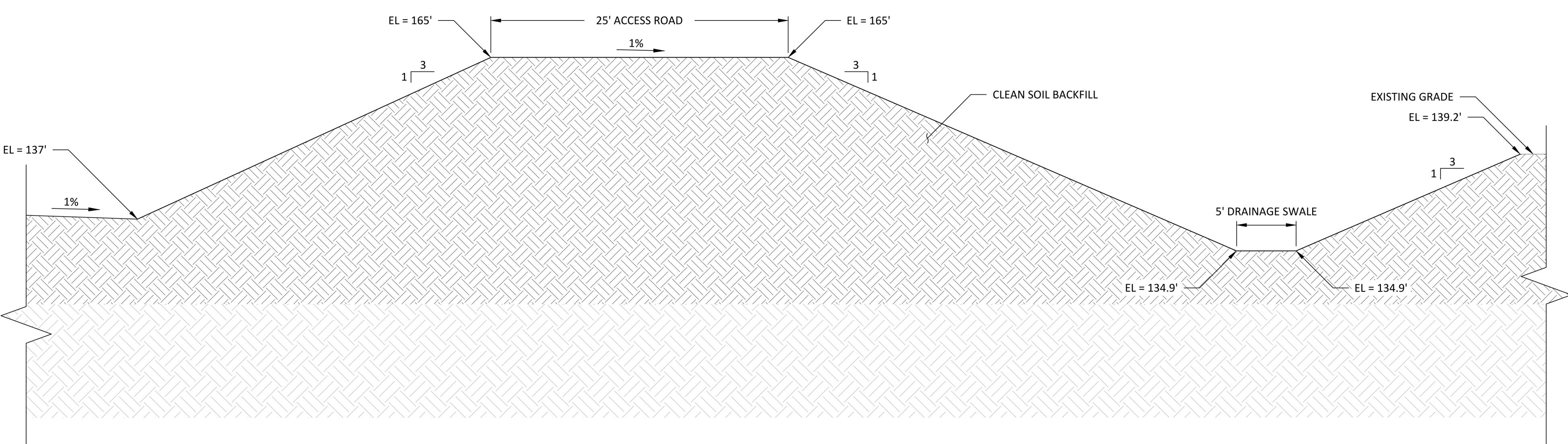


FINAL COVER 02
NOT TO SCALE
05, 07



NOTES:

1. WHEN INSTALLING BOTH HAY BALES AND SILT FENCE IT IS NOT NECESSARY TO EXCAVATE FOR HAY BALES.
2. ENGINEER MAY ACCEPT SILT FENCE WITHOUT HAY BALES.



ROAD SWALE 03
NOT TO SCALE
04, 05

SILT FENCE BARRIER 04
NOT TO SCALE
04, 05

SCS ENGINEERS STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0880 FAX NO. (813) 624-6757 FLORIDA FIRM REGISTRATION RV-4892	CHK BY:	RBC
	DRAWN BY:	
09222096.03	TMR/EAM	TMR/EAM
DSN BY:	CHK BY:	APR BY:
TMR/KF	RBC	RBC
CADD FILE: 09222096.03_DTL		
DATE: MAY 5, 2025		
DRAWING NO. 10		
SHEET 10 of 10		

ISSUED FOR PERMIT

05/05/2025

ATTACHMENT C

Closure and Post-Closure Plan

Landsdown Environmental Solutions

Landsdown Environmental Solutions, LLC
170 County Road 40
Montgomery, Alabama 36104
(334) 834-1180

SCS ENGINEERS

09222096.03 | April 2025

1 Saint Louis Street, Suite 1001
Mobile, AL 36602
251-283-6444

Table of Contents

Section	Page
1.0 CLOSURE AND POST-CLOSURE PLAN	1
1.1 Post-Closure Plan Period.....	1
1.2 Change In Length Of Post-Closure Plan Period.....	1
1.3 Facility Closure Area	1
1.4 Facility Maintenance	1
1.5 Final Cover System.....	1
1.6 Final Cover Maintenance	2
1.7 Groundwater Monitoring.....	2
1.8 Stormwater Monitoring	2
1.9 Post-Closure Certification.....	2
1.10 Deed Record And Environmental Covenant	3
1.11 Post-Closure Land Use	3
1.12 Post-Closure Care Contacts	4

1.0 CLOSURE AND POST-CLOSURE PLAN

1.1 POST-CLOSURE PLAN PERIOD

The Landfill Permittee must maintain the landfill and continue monitoring requirements throughout the post-closure care period. The post-closure maintenance and monitoring period shall continue for 30 years or for a period of time that has otherwise been determined by ADEM.

1.2 CHANGE IN LENGTH OF POST-CLOSURE PLAN PERIOD

The length of the post-closure care period may be decreased by the ADEM, if the landfill supervisor demonstrates that a reduced period is sufficient to protect human health and the environment and the demonstration is approved by the Department.

The length of the post-closure care period may also be increased, if ADEM determines that the lengthened period is necessary to protect human health and the environment.

1.3 FACILITY CLOSURE AREA

The facility has been designed to be permitted and constructed in three distinct phases. Accounting for these three phases, the largest area needing final closure is anticipated to be approximately 129.79 Acres.

1.4 FACILITY MAINTENANCE

The Landfill Permittee shall maintain the landfill property for the post-closure care period as determined by ADEM. The Permittee shall inspect the facility on a monthly basis and after major storm events to identify problems with vector control, erosion, cracks, ponding, settlement, and other such deficiencies.

Eroded areas shall be filled with suitable soil cover, compacted, graded, and revegetated. Areas that allow surface water ponding due to settlement shall also be filled, graded, and vegetated. Extensive surface cracks must be identified and corrected to prevent the infiltration of surface water.

The Permittee shall also ensure inspection and maintenance of all access control structures. Signs will continue to be posted at the facility throughout post-closure, which state that the facility is closed and provide the location of the nearest permitted landfill. Any waste dumped at the facility following final closure shall be moved to an approved landfill by the permittee, the operating agency, or the owner.

1.5 FINAL COVER SYSTEM

It is anticipated that, at the time of closure, the Lansdown Environmental Solutions will be closed in place utilizing an equivalent final cover system design consisting of:

- 18" Drainage Sand Layer
- 6" Top Soil Layer

1.6 FINAL COVER MAINTENANCE

Throughout the post-closure care period, the final cover system will require attention and maintenance. After the landfill is closed, the Landfill Permittee shall make monthly inspections of the entire cover system to detect problems, such as erosion and settlement that could reduce the effectiveness of the final cover.

The Landfill Permittee should mow the entire landfill at least once a year to reduce the growth of woody plants. The volunteer growth of any trees should be prevented on the final cover. Inspection immediately following mowing could detect the beginning of erosion or the settlement of the final cover.

It is imperative that erosion problems be identified and corrected to prevent damage to the cap, which could result in exposure of waste materials or increased infiltration. Any eroded areas must be filled with suitable material, compacted, and vegetated. Periodically lime and fertilizer will have to be added to the cover in order to maintain an adequate vegetative cover.

Due to decomposition of waste, and compaction of the waste by overburden, the landfill surface will be subject to settlement and the potential for rainwater ponding. Inspections should detect settled areas. These areas must be filled, compacted, and vegetated to prevent ponding and encourage runoff, while maintaining a minimum grade of 5 percent.

The Permittee shall inspect all surface water control structures including concrete inlets, storm sewers, culverts, sediment pond outlets, berms, ditches, and terraces to ensure the integrity of the surface water control system remains intact. Any damage to surface water control structures shall be promptly repaired.

1.7 GROUNDWATER MONITORING

The Landfill Permittee must continue detection monitoring at all groundwater monitoring wells on a semi-annual basis. Samples from each well must be collected and analyzed for the constituents outlined in the permit. The requirements for groundwater monitoring and record- keeping apply throughout the post-closure care period. All groundwater monitoring wells must be maintained and any wells that are damaged or destroyed by equipment, etc., should be immediately replaced in accordance with the details and the Groundwater Monitoring Plan.

1.8 STORMWATER MONITORING

Stormwater monitoring shall occur in accordance with a current NPDES Permit for a period of time specified by the Department.

1.9 POST-CLOSURE CERTIFICATION

Following the completion of the post-closure care period of this facility, the Permittee will submit to the Department a certification, signed by an independent registered professional engineer verifying that the post-closure care has been completed in accordance with the post-closure plan. A copy of the certification should be maintained by the permittee.

1.10 DEED RECORD AND ENVIRONMENTAL COVENANT

Within 90 days after closure requirements are achieved, the Owner shall record a notation onto the land deed or onto some other legal instrument that is normally examined during a title search, that will in perpetuity, notify any potential purchaser of the property that:

1. The land has been used as a solid waste disposal facility;
2. Post-closure use of the property must never be allowed to disturb the integrity of the final cover or the function of the monitoring systems, unless ADEM determines that the activities will not increase the potential threat to human health or the environment; or the activities are necessary to reduce the threat to human health or the environment.
3. The locations and dimensions of the disposal facility with respect to permanently surveyed benchmarks and section corners have been placed on a plat prepared and sealed by a land surveyor.
4. The Permittee of the Lansdown Environmental Solutions is Lansdown Environmental Solutions, LLC, and the facility was utilized for the disposal of C&D Waste.
5. Certification by an Engineer or Land Surveyor that all closure requirements have been completed as determined by the Department.

Upon completion of the deed recording requirements, the Owner shall submit a certified copy of the recording instrument to the Department and place a copy in the Operating Record within 120 days after permit expiration, revocation, or as otherwise directed by the Department.

In addition to the deed notation, ADEM now requires an environmental covenant to be filed for the property. Below are the steps required for filing the covenant:

- The covenant will be prepared and then signed by the property owner and mailed to ADEM.
- ADEM will review and sign the covenant and return to the property owner.
- The covenant is then to be recorded at the County Courthouse and signed by the County Clerk.
- A final copy of the covenant is to be submitted to ADEM.

1.11 POST-CLOSURE LAND USE

Post-closure use of the property must never be allowed to disturb the integrity of the final cover or any component of the monitoring systems. Maintenance or post-closure use with equipment shall only be performed during dry periods to prevent damage to the final cover system.

Post-closure land uses of the Lansdown Environmental Solutions should be limited to agricultural purposes that rely on the use of short-rooted grasses. Due to the potential for settlement, the construction of buildings should be limited. If the Landfill Owner or Permittee, upon final closure of the facility, has future post-closure plans to utilize any portion of the landfill property, ADEM will be notified.

The Permittee or Owner, or any subsequent owner of the land upon which a landfill facility is located must request approval from the Department if they wish to remove waste, waste residues, the liner, or any contaminated soils. The owner may also ask permission to remove the notation from the recording instrument, if all the waste and contaminated soils are removed from the property and no unpermitted discharges to waters have occurred.

1.12 POST-CLOSURE CARE CONTACTS

Landsdown Environmental Solutions, LLC

Vincenzo Labarbera

170 County Road 40

Lowndesboro, Alabama 36752

Phone: (540) 379-6990

labar100@aol.net

Alabama Department of Environmental Management

Solid Waste Branch

P.O. Box 301463

Montgomery, Alabama 36130-1463

(334) 271-7700

SCS Engineers

Kevin Frinak

1 St. Louis Street, Suite 1001

Mobile, AL 36602

(334) 329-4168

ATTACHMENT D

GLOBAL STATIC AND SEISMIC SLOPE STABILITY**North Montgomery Regional Landfill – Cell 1****OBJECTIVE**

The objective of this calculation is to analyze the stability of Cell 1 of the North Montgomery Regional Landfill (Landfill) expansion at final grade conditions. This analysis will determine an acceptable soil to waste friction envelope that will yield deep-seated translational and rotational factors of safety exceeding 1.5 for static conditions. Final grades represent worst case for stability because interim grades are designed with flatter slopes, and lower waste depths.

This analysis includes:

Appendix A – Cross Section Location

Cross Section Profile

Appendix B – STEDwin2.91 Slope Stability Software Analysis Output Data

METHODOLOGY**Cross Section – Final Grade Slopes**

A cross-section through the proposed final grades configuration that included the maximum crest height and sloping landfill base grade was considered. The cross section (Section A-A') slope profile in Cell 1 has a maximum elevation of approximately 261 feet above mean sea level, with a waste thickness of approximately 116 feet at the highest point of the cross section. Since global stability is being analyzed, the cover system was modeled as one soil unit.

LANDFILL DESIGN

The landfill system design consists of the following (from top to bottom):

- Cover System (2 ft)
- Waste
- Subgrade

STATIC STABILITY ANALYSIS

The software program used to calculate slope stability FS within this analysis is entitled, "STEDwin" version 2.91, provided by Annapolis Engineering Software, and utilizes the STABL5M slope stability program developed by Purdue University. The program uses limit equilibrium techniques to determine a minimum FS for each given input cross-section slope. STEDwin will calculate a minimum factor of safety for both rotational and non-circular, translational failure surfaces within the cross-section under both static and seismic conditions based upon slope geometry, shear strength parameters of waste and soils, and groundwater levels.

The following slope stability methodologies were analyzed to determine the minimum factor of safety under both static and seismic conditions.

- Block Search Analysis Using Janbu's Method



SLOPE STABILITY CALCULATIONS

Page 2

- Rotational Surface Analysis Using Janbu's Method
- Rotational Surface Analysis Using Bishop's Method

LANDFILL DESIGN

SOIL & WASTE PARAMETERS

Surficial soils and cover materials are comprised of primarily clayey sands and sandy loam. Waste is composed of construction and demolition debris. While friction angles for these material types are estimated at 32 and 35 degrees respectively, conservative values of 30 degrees for soil, cover, and waste were utilized for the purpose of this model.

The following is a summary of the material properties that were assumed in the model.

Cover Soil Strength

γ: Moist Unit weight of cover soil = 119 pcf
γ_s: Saturated Unit weight of cover soil = 124 pcf
c': Cohesion = 0 psf
Φ': Friction angle = 30 degrees

Waste Strength Parameters

The shear strength values for C&D waste were estimated to be:

γ: Moist Unit weight of waste = 90 pcf
γ_s: Saturated Unit weight waste = 90 pcf
c': Cohesion = 0 psf
Φ': Friction angle = 30 degrees

The shear strength values for waste were taken from the Ohio State EPA publication Geotechnical and Stability Analysis for Ohio Waste Containment Facilities, 2004.

Foundation Soil Strength

γ: Moist Unit weight of foundation = 119 pcf
γ_s: Saturated Unit weight of foundation = 124 pcf
c': Cohesion = 0 psf
Φ': Friction angle = 30 degrees

SLOPE STABILITY RESULTS

Factors of safety (FS) were calculated for the final slope condition for the North Montgomery Regional Landfill under static conditions. The STEDwin software package calculated FS, expressing the ratio of resisting to driving forces, for each failure surface considering static conditions. The geometry of the critical failure planes are shown in Attachment A.

Attachment B contains the STEDwin slope stability software output data.

SLOPE STABILITY CALCULATIONS

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Below is a summary of the analysis files and results.

Cross Section A-A'	Failure Type	Analysis	FS
	Translational	Static	2.86
	Rotational - Janbu	Static	2.03
	Rotational - Bishop	Static	2.03

CONCLUSIONS

Considering rotational and translational failure surfaces, it was the rotational surfaces that produced the lowest FS for each case. Factors of Safety calculated within this stability analysis comply with industry excepted standards. All translational and rotational analyses provided a static factor of safety greater than 1.5. **In conclusion, the North Montgomery Regional Landfill will be structurally stable under static and seismic conditions.**

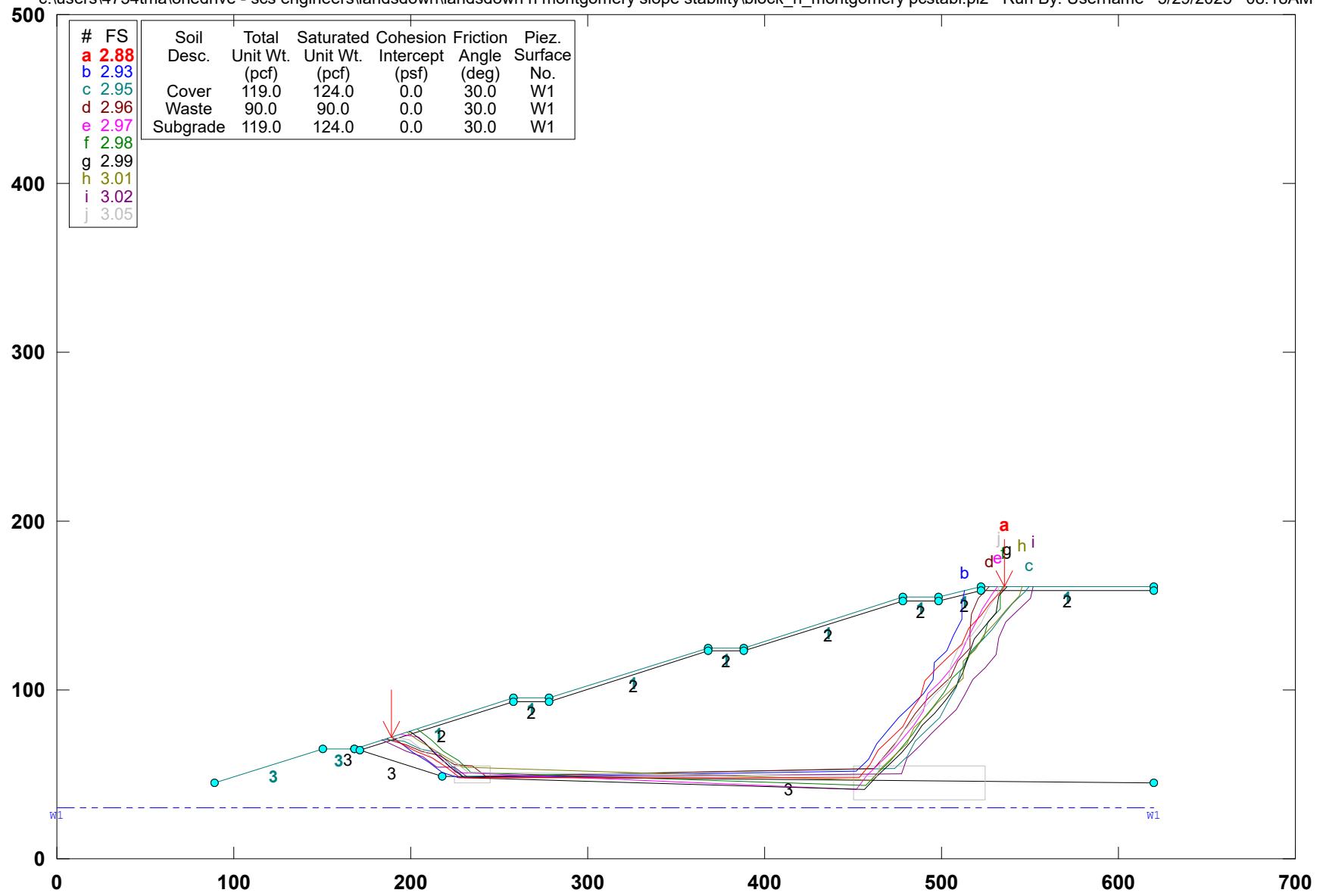
SLOPE STABILITY CALCULATIONS

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ATTACHMENT A

N_Montgomery_Block

c:\users\4754\malone\onedrive - scs engineers\landsdown\landsdown n montgomery slope stability\block_n_montgomery_pcstabl.pl2 Run By: Username 5/29/2025 08:18AM



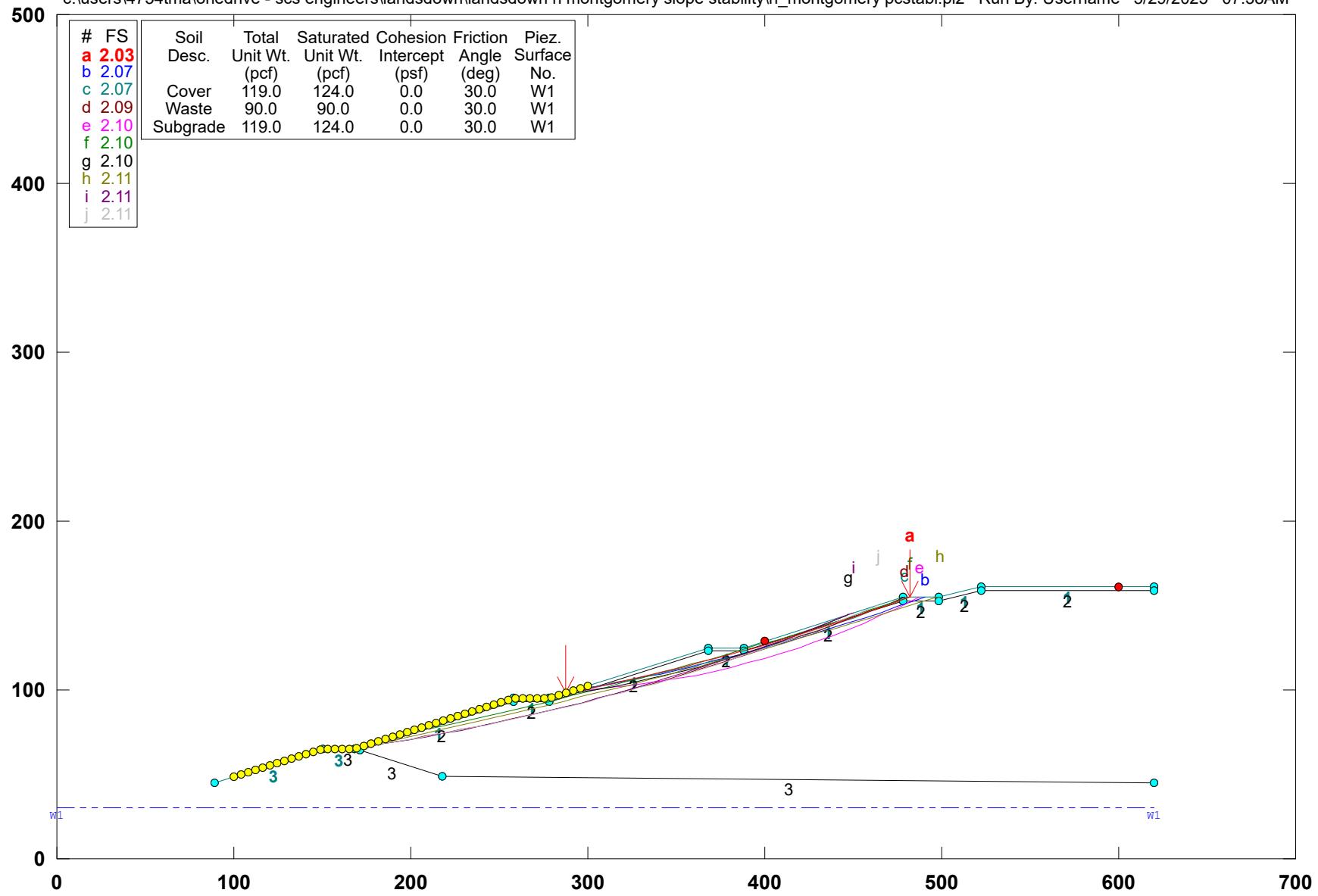
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Safety Factors Are Calculated By The Modified Janbu Method

SCS ENGINEERS

N_Montgomery

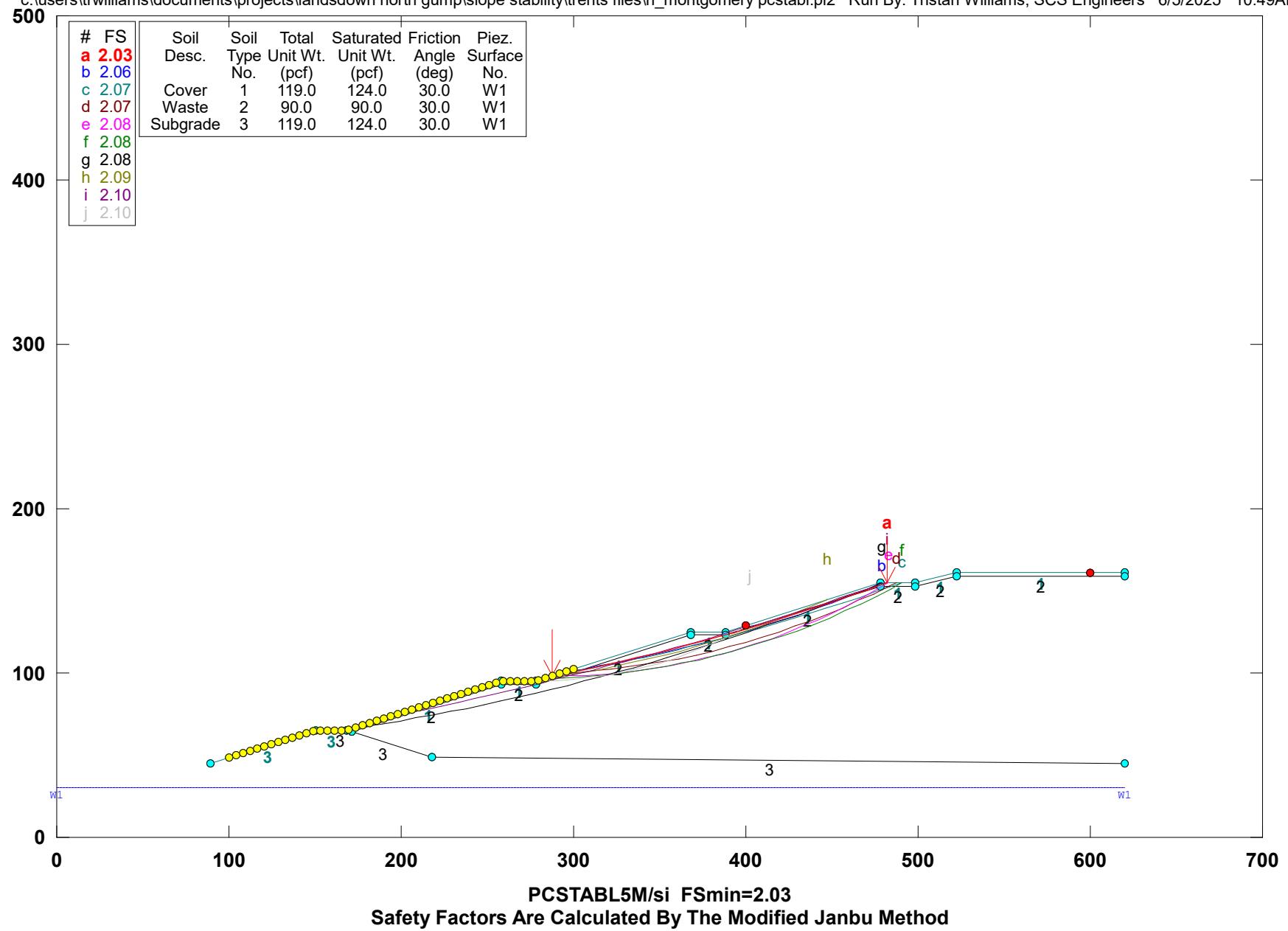
c:\users\4754tma\onedrive - scs engineers\landsdown\landsdown n montgomery slope stability\n_montgomery.pcstab1.pl2 Run By: Username 5/29/2025 07:38AM



N_Montgomery

c:\users\trwilliams\documents\projects\landsdown north gump\slope stability\trents files\nt_montgomery_pcstabl.pl2 Run By: Tristan Williams, SCS Engineers 6/5/2025 10:49AM

#	FS	Soil	Soil	Total	Saturated	Friction	Piez.
a	2.03	Desc.	Type	Unit Wt.	Unit Wt.	Angle	Surface
b	2.06		No.	(pcf)	(pcf)	(deg)	No.
c	2.07	Cover	1	119.0	124.0	30.0	W1
d	2.07	Waste	2	90.0	90.0	30.0	W1
e	2.08	Subgrade	3	119.0	124.0	30.0	W1



SLOPE STABILITY CALCULATIONS

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ATTACHMENT B

**** PCSTABLM ****

by

Purdue University

--Slope Stability Analysis--

Simplified Janbu, Simplified Bishop
or Spencer's Method of Slices

Run Date: 6/5/2025
 Time of Run: 10:02AM
 Run By: Tristan Williams, SCS Engineers
 Input Data Filename: C:block_n_montgomery_pcstabl.
 Output Filename: C:block_n_montgomery_pcstabl.OUT
 Unit: ENGLISH
 Plotted Output Filename: C:block_n_montgomery_pcstabl.PLT

PROBLEM DESCRIPTION N_Montgomery_Block

BOUNDARY COORDINATES

10 Top Boundaries
 21 Total Boundaries

Boundary No.	X-Left (ft)	Y-Left (ft)	X-Right (ft)	Y-Right (ft)	Soil Type Below Bnd
1	89.00	45.00	150.00	65.00	3
2	150.00	65.00	168.00	65.00	3
3	168.00	65.00	258.00	95.00	1
4	258.00	95.00	278.00	95.00	1
5	278.00	95.00	368.00	125.00	1
6	368.00	125.00	388.00	125.00	1
7	388.00	125.00	478.00	155.00	1
8	478.00	155.00	498.00	155.00	1
9	498.00	155.00	522.00	161.00	1
10	522.00	161.00	620.00	161.00	1
11	168.00	65.00	171.06	64.02	3
12	171.06	64.02	258.00	93.00	2
13	258.00	93.00	278.00	93.00	2
14	278.00	93.00	368.00	123.00	2
15	368.00	123.00	388.00	123.00	2
16	388.00	123.00	478.00	153.00	2
17	478.00	153.00	498.00	153.00	2
18	498.00	153.00	522.00	159.00	2
19	522.00	159.00	620.00	159.00	2
20	171.06	64.02	218.00	49.00	3
21	218.00	49.00	620.00	45.00	3

ISOTROPIC SOIL PARAMETERS

3 Type(s) of Soil

Soil Type	Total Unit Wt.	Saturated Unit Wt.	Cohesion	Friction Intercept	Pore Pressure Angle	Constant Pressure	Piez. Surface
No.	(pcf)	(pcf)	(psf)	(deg)	Param.	(psf)	No.
1	119.0	124.0	0.0	30.0	0.00	0.0	1
2	90.0	90.0	0.0	30.0	0.00	0.0	1
3	119.0	124.0	0.0	30.0	0.00	0.0	1

1 PIEZOMETRIC SURFACE(S) HAVE BEEN SPECIFIED

Unit Weight of Water = 62.40

Piezometric Surface No. 1 Specified by 2 Coordinate Points

Point No.	X-Water (ft)	Y-Water (ft)
1	0.00	30.00
2	620.00	30.00

A Critical Failure Surface Searching Method, Using A Random Technique For Generating Sliding Block Surfaces, Has Been Specified.

100 Trial Surfaces Have Been Generated.

2 Boxes Specified For Generation Of Central Block Base

Length Of Line Segments For Active And Passive Portions Of Sliding Block Is 10.0

Box No.	X-Left (ft)	Y-Left (ft)	X-Right (ft)	Y-Right (ft)	Height (ft)
1	215.00	50.00	245.00	50.00	10.00
2	450.00	45.00	525.00	45.00	20.00

Following Are Displayed The Ten Most Critical Of The Trial Failure Surfaces Examined. They Are Ordered - Most Critical First.

* * Safety Factors Are Calculated By The Modified Janbu Method * *
 Failure Surface Specified By 22 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	189.56	72.19
2	190.19	71.95
3	199.12	67.44
4	206.27	60.46
5	213.75	53.82
6	221.42	47.40
7	231.33	46.06
8	464.86	53.05
9	471.89	60.16
10	478.06	68.04
11	483.79	76.23
12	490.85	83.32
13	497.06	91.15
14	502.87	99.29
15	509.79	106.51
16	516.84	113.60
17	518.15	123.51
18	525.19	130.61
19	530.94	138.80
20	536.67	146.99
21	542.66	155.00
22	542.85	161.00
	*** 2.856 ***	

Individual data on the 32 slices

Slice No.	Width (ft)	Weight (lbs)	Water		Tie		Earthquake		
			Force	Water Top (lbs)	Force	Force Bot (lbs)	Norm (lbs)	Tan (lbs)	Hor (lbs)
1	0.6	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1.8	269.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	7.1	3573.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	7.2	8541.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	7.5	15153.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	5.8	15826.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	1.9	6000.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	9.9	34853.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	26.7	109141.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	20.0	88053.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	23.7	110746.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	66.3	390478.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	20.0	135348.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	76.9	598761.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	7.0	60623.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	6.1	49779.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.1	451.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	5.7	43123.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	7.1	48146.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	6.2	38248.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.9	5411.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	4.9	26475.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	6.9	34132.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	7.1	31373.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	1.3	4921.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	3.9	12381.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	3.2	9372.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	5.7	13939.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	5.7	9670.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	6.0	5736.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.1	52.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.1	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Failure Surface Specified By 21 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	199.92	75.64
2	206.03	70.31
3	213.40	63.55

4	221.61	57.84
5	228.69	50.78
6	457.52	43.69
7	463.57	51.65
8	470.34	59.01
9	477.40	66.10
10	483.60	73.94
11	490.00	81.63
12	494.83	90.38
13	501.48	97.85
14	507.26	106.01
15	512.39	114.60
16	518.85	122.23
17	523.00	131.32
18	529.64	138.80
19	532.06	148.50
20	538.99	155.71
21	539.01	161.00
	*** 2.926 ***	

Failure Surface Specified By 20 Coordinate Points

Point	X-Surf	Y-Surf
No.	(ft)	(ft)
1	191.83	72.94
2	199.31	68.88
3	207.85	63.69
4	214.98	56.67
5	223.71	51.80
6	452.85	48.91
7	459.55	56.34
8	463.58	65.49
9	466.35	75.10
10	471.48	83.68
11	478.55	90.76
12	485.40	98.04
13	490.72	106.51
14	497.22	114.11
15	501.49	123.15
16	507.72	130.97
17	513.26	139.30
18	517.96	148.12
19	519.41	158.02
20	519.47	160.37
	*** 2.929 ***	

Failure Surface Specified By 24 Coordinate Points

Point	X-Surf	Y-Surf
No.	(ft)	(ft)
1	171.51	66.17
2	178.57	65.73
3	186.38	59.48
4	196.34	58.58
5	206.33	58.30
6	216.33	58.24
7	226.06	55.90
8	235.07	51.58
9	465.28	46.85
10	472.29	53.99
11	478.94	61.46
12	486.01	68.53
13	488.23	78.28
14	491.98	87.55
15	498.11	95.45
16	503.47	103.89
17	509.59	111.81
18	514.74	120.38
19	521.78	127.48
20	526.21	136.45
21	532.42	144.28
22	538.62	152.12
23	545.68	159.21
24	547.44	161.00

*** 2.951 ***

Failure Surface Specified By 21 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	193.50	73.50
2	200.08	70.34
3	207.21	63.32
4	216.89	60.82
5	225.86	56.40
6	234.47	51.32
7	481.07	53.76
8	487.22	61.64
9	493.84	69.13
10	500.10	76.94
11	504.34	85.99
12	508.91	94.89
13	514.24	103.35
14	519.76	111.68
15	526.13	119.40
16	533.15	126.52
17	539.58	134.18
18	546.31	141.58
19	552.15	149.69
20	557.37	158.22
21	559.44	161.00

*** 2.955 ***

Failure Surface Specified By 21 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	189.98	72.33
2	195.18	68.05
3	202.38	61.11
4	212.22	59.34
5	222.22	59.22
6	231.02	54.46
7	454.85	49.11
8	461.49	56.58
9	468.23	63.97
10	475.07	71.27
11	480.50	79.67
12	485.80	88.15
13	487.26	98.04
14	491.94	106.88
15	494.00	116.66
16	499.31	125.14
17	504.06	133.93
18	511.02	141.11
19	518.02	148.26
20	525.09	155.33
21	530.64	161.00

*** 2.986 ***

Failure Surface Specified By 21 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	182.95	69.98
2	188.72	69.44
3	197.75	65.16
4	207.43	62.64
5	214.63	55.70
6	221.89	48.82
7	473.34	53.53
8	476.29	63.09
9	483.36	70.16
10	487.94	79.05
11	494.69	86.43
12	501.76	93.50
13	506.50	102.31
14	511.48	110.98
15	513.83	120.70
16	518.41	129.59

17	524.61	137.44
18	531.27	144.89
19	536.97	153.11
20	543.37	160.79
21	543.58	161.00
***	2.988	***

Failure Surface Specified By 22 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	179.99	69.00
2	182.09	68.08
3	191.10	63.75
4	200.57	60.52
5	208.51	54.44
6	218.51	54.24
7	226.07	47.69
8	477.04	50.42
9	480.33	59.86
10	487.33	67.00
11	494.21	74.26
12	501.20	81.41
13	508.14	88.61
14	513.18	97.25
15	517.73	106.15
16	524.79	113.23
17	531.19	120.92
18	532.79	130.79
19	536.15	140.21
20	542.99	147.50
21	550.03	154.61
22	551.70	161.00
***	3.002	***

Failure Surface Specified By 22 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	186.96	71.32
2	187.64	70.73
3	197.39	68.54
4	205.09	62.15
5	213.17	56.26
6	222.73	53.33
7	453.03	43.61
8	459.37	51.34
9	466.44	58.41
10	472.38	66.46
11	477.58	75.00
12	484.10	82.59
13	487.13	92.12
14	487.94	102.09
15	494.54	109.59
16	501.59	116.69
17	507.66	124.63
18	514.64	131.80
19	521.34	139.21
20	527.65	146.98
21	532.00	155.98
22	533.90	161.00
***	3.027	***

Failure Surface Specified By 22 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	193.53	73.51
2	198.72	69.34
3	208.70	68.68
4	216.04	61.89
5	226.03	61.48
6	234.93	56.92
7	242.13	49.98
8	471.80	50.08
9	478.84	57.18

10	483.00	66.28
11	490.05	73.36
12	495.79	81.56
13	502.13	89.29
14	504.15	99.08
15	511.01	106.37
16	515.08	115.50
17	520.27	124.04
18	525.62	132.50
19	532.58	139.67
20	535.93	149.09
21	541.95	157.08
22	544.84	161.00
***	3.043	***

**** PCSTAB15M ****

by

Purdue University

--Slope Stability Analysis--

Simplified Janbu, Simplified Bishop
or Spencer's Method of Slices

Run Date: 6/5/2025
 Time of Run: 09:52AM
 Run By: Tristan Williams, SCS Engineers
 Input Data Filename: C:n_montgomery pcstabl.
 Output Filename: C:n_montgomery pcstabl.OUT
 Unit: ENGLISH
 Plotted Output Filename: C:n_montgomery pcstabl.PLT

PROBLEM DESCRIPTION N_Montgomery

BOUNDARY COORDINATES

10 Top Boundaries

21 Total Boundaries

Boundary No.	X-Left (ft)	Y-Left (ft)	X-Right (ft)	Y-Right (ft)	Soil Type Below Bnd
1	89.00	45.00	150.00	65.00	3
2	150.00	65.00	168.00	65.00	3
3	168.00	65.00	258.00	95.00	1
4	258.00	95.00	278.00	95.00	1
5	278.00	95.00	368.00	125.00	1
6	368.00	125.00	388.00	125.00	1
7	388.00	125.00	478.00	155.00	1
8	478.00	155.00	498.00	155.00	1
9	498.00	155.00	522.00	161.00	1
10	522.00	161.00	620.00	161.00	1
11	168.00	65.00	171.06	64.02	3
12	171.06	64.02	258.00	93.00	2
13	258.00	93.00	278.00	93.00	2
14	278.00	93.00	368.00	123.00	2
15	368.00	123.00	388.00	123.00	2
16	388.00	123.00	478.00	153.00	2
17	478.00	153.00	498.00	153.00	2
18	498.00	153.00	522.00	159.00	2
19	522.00	159.00	620.00	159.00	2
20	171.06	64.02	218.00	49.00	3
21	218.00	49.00	620.00	45.00	3

ISOTROPIC SOIL PARAMETERS

3 Type(s) of Soil

Soil Type	Total Unit Wt.	Saturated Unit Wt.	Cohesion	Friction Intercept	Pore Angle	Pressure Constant	Piez. Surface No.
No.	(pcf)	(pcf)	(psf)	(deg)	Param.	(psf)	No.
1	119.0	124.0	0.0	30.0	0.00	0.0	1
2	90.0	90.0	0.0	30.0	0.00	0.0	1
3	119.0	124.0	0.0	30.0	0.00	0.0	1

1 PIEZOMETRIC SURFACE(S) HAVE BEEN SPECIFIED

Unit Weight of Water = 62.40

Piezometric Surface No. 1 Specified by 2 Coordinate Points

Point No.	X-Water (ft)	Y-Water (ft)
1	0.00	30.00
2	620.00	30.00

A Critical Failure Surface Searching Method, Using A Random Technique For Generating Circular Surfaces, Has Been Specified.
 2000 Trial Surfaces Have Been Generated.

40 Surfaces Initiate From Each Of 50 Points Equally Spaced Along The Ground Surface Between X = 100.00 ft.

and X = 300.00 ft.

Each Surface Terminates Between X = 400.00 ft.
 and X = 600.00 ft.

Unless Further Limitations Were Imposed, The Minimum Elevation At Which A Surface Extends Is Y = 0.00 ft.

10.00 ft. Line Segments Define Each Trial Failure Surface.

Following Are Displayed The Ten Most Critical Of The Trial Failure Surfaces Examined. They Are Ordered - Most Critical First.

* * Safety Factors Are Calculated By The Modified Bishop Method * *

Failure Surface Specified By 22 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	287.76	98.25
2	297.55	100.28
3	307.32	102.40
4	317.08	104.59
5	326.81	106.87
6	336.53	109.22
7	346.23	111.66
8	355.91	114.18
9	365.57	116.78
10	375.20	119.45
11	384.81	122.21
12	394.40	125.05
13	403.97	127.96
14	413.51	130.96
15	423.03	134.03
16	432.52	137.18
17	441.98	140.41
18	451.42	143.72
19	460.83	147.11
20	470.21	150.58
21	479.56	154.12
22	481.83	155.00

Circle Center At X = 47.6 ; Y = 1279.6 and Radius, 1205.5

*** 2.034 ***

Individual data on the 28 slices

Slice No.	Width (ft)	Weight (lbs)	Water		Tie		Earthquake		
			Top Force	Bot Force	Norm Force	Tan Force	Hor (lbs)	Ver (lbs)	Load (lbs)
1	9.8	717.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	6.6	1262.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3.2	816.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	9.8	3115.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	9.7	3998.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	9.7	4801.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	9.7	5524.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	9.7	6168.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	9.7	6733.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	2.4	1779.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	7.2	4662.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	9.6	4164.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	2.7	731.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.5	117.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	4.0	923.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	2.4	574.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	9.6	2470.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	9.5	2661.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	9.5	2775.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	9.5	2814.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	9.5	2778.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	9.4	2668.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	9.4	2484.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	4.6	1118.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	4.8	1098.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	7.8	1528.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	1.6	217.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	2.3	118.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Failure Surface Specified By 22 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	291.84	99.61
2	301.67	101.44
3	311.48	103.36
4	321.28	105.37
5	331.06	107.47
6	340.82	109.65
7	350.55	111.92

8	360.27	114.28
9	369.97	116.72
10	379.64	119.25
11	389.29	121.87
12	398.92	124.58
13	408.52	127.37
14	418.10	130.25
15	427.65	133.21
16	437.18	136.26
17	446.67	139.39
18	456.14	142.61
19	465.58	145.91
20	474.99	149.30
21	484.37	152.77
22	490.22	155.00

Circle Center At X = 92.8 ; Y = 1195.5 and Radius, 1113.8
 *** 2.071 ***

Failure Surface Specified By 21 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	295.92	100.97
2	305.78	102.61
3	315.62	104.39
4	325.44	106.29
5	335.23	108.33
6	344.99	110.50
7	354.73	112.80
8	364.43	115.23
9	374.09	117.79
10	383.72	120.48
11	393.32	123.30
12	402.87	126.25
13	412.39	129.33
14	421.86	132.53
15	431.29	135.86
16	440.67	139.32
17	450.01	142.91
18	459.29	146.62
19	468.53	150.45
20	477.71	154.41
21	479.04	155.00

Circle Center At X = 178.8 ; Y = 835.5 and Radius, 743.8
 *** 2.071 ***

Failure Surface Specified By 34 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	169.39	65.46
2	179.25	67.11
3	189.10	68.83
4	198.94	70.62
5	208.77	72.49
6	218.58	74.42
7	228.37	76.43
8	238.15	78.52
9	247.92	80.67
10	257.67	82.90
11	267.40	85.20
12	277.11	87.57
13	286.81	90.02
14	296.49	92.54
15	306.15	95.12
16	315.79	97.78
17	325.41	100.51
18	335.00	103.32
19	344.58	106.19
20	354.14	109.14
21	363.67	112.15
22	373.19	115.24
23	382.67	118.39
24	392.14	121.62

25	401.58	124.92
26	411.00	128.29
27	420.39	131.72
28	429.75	135.23
29	439.09	138.80
30	448.40	142.45
31	457.69	146.16
32	466.95	149.95
33	476.17	153.80
34	479.00	155.00

Circle Center At X = -47.4 ; Y = 1395.2 and Radius, 1347.3
 *** 2.089 ***

Failure Surface Specified By 22 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	291.84	99.61
2	301.81	100.30
3	311.77	101.19
4	321.71	102.30
5	331.62	103.62
6	341.51	105.15
7	351.35	106.90
8	361.16	108.85
9	370.92	111.01
10	380.64	113.38
11	390.30	115.95
12	399.91	118.73
13	409.45	121.72
14	418.93	124.91
15	428.34	128.30
16	437.67	131.89
17	446.93	135.67
18	456.10	139.66
19	465.18	143.84
20	474.18	148.21
21	483.08	152.77
22	487.20	155.00

Circle Center At X = 264.9 ; Y = 567.0 and Radius, 468.1
 *** 2.099 ***

Failure Surface Specified By 31 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	193.88	73.63
2	203.65	75.73
3	213.42	77.88
4	223.18	80.07
5	232.93	82.30
6	242.66	84.58
7	252.39	86.90
8	262.11	89.26
9	271.81	91.66
10	281.51	94.11
11	291.20	96.59
12	300.87	99.13
13	310.53	101.70
14	320.19	104.31
15	329.83	106.97
16	339.46	109.67
17	349.07	112.41
18	358.68	115.20
19	368.27	118.02
20	377.85	120.89
21	387.42	123.80
22	396.97	126.75
23	406.51	129.75
24	416.04	132.78
25	425.56	135.86
26	435.06	138.98
27	444.54	142.14
28	454.02	145.34

29	463.48	148.58
30	472.92	151.87
31	481.81	155.00

Circle Center At X = -282.0 ; Y = 2307.6 and Radius, 2284.1
 *** 2.100 ***

Failure Surface Specified By 19 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	283.67	96.89
2	293.57	98.34
3	303.44	99.97
4	313.27	101.76
5	323.08	103.72
6	332.85	105.85
7	342.58	108.15
8	352.27	110.62
9	361.92	113.26
10	371.52	116.06
11	381.07	119.02
12	390.56	122.16
13	400.01	125.45
14	409.39	128.91
15	418.71	132.53
16	427.97	136.31
17	437.16	140.24
18	446.28	144.34
19	446.93	144.64

Circle Center At X = 204.5 ; Y = 670.5 and Radius, 579.0
 *** 2.103 ***

Failure Surface Specified By 36 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	169.39	65.46
2	179.15	67.63
3	188.91	69.82
4	198.66	72.04
5	208.40	74.28
6	218.14	76.56
7	227.87	78.86
8	237.60	81.19
9	247.31	83.55
10	257.02	85.94
11	266.73	88.36
12	276.43	90.80
13	286.12	93.27
14	295.80	95.77
15	305.47	98.30
16	315.14	100.86
17	324.80	103.44
18	334.45	106.05
19	344.10	108.69
20	353.74	111.36
21	363.37	114.06
22	372.99	116.78
23	382.60	119.53
24	392.21	122.31
25	401.81	125.12
26	411.40	127.95
27	420.98	130.81
28	430.55	133.70
29	440.12	136.62
30	449.67	139.56
31	459.22	142.54
32	468.76	145.54
33	478.29	148.56
34	487.81	151.62
35	497.33	154.70
36	498.99	155.25

Circle Center At X = -573.7 ; Y = 3443.1 and Radius, 3458.4
 *** 2.109 ***

Failure Surface Specified By 31 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	169.39	65.46
2	179.26	67.05
3	189.12	68.71
4	198.97	70.47
5	208.80	72.30
6	218.61	74.22
7	228.41	76.22
8	238.19	78.30
9	247.95	80.46
10	257.70	82.71
11	267.42	85.04
12	277.13	87.45
13	286.81	89.94
14	296.48	92.52
15	306.12	95.18
16	315.73	97.91
17	325.33	100.73
18	334.90	103.63
19	344.44	106.61
20	353.96	109.67
21	363.46	112.81
22	372.93	116.03
23	382.37	119.34
24	391.78	122.72
25	401.16	126.18
26	410.51	129.71
27	419.83	133.33
28	429.13	137.03
29	438.39	140.80
30	447.61	144.65
31	449.92	145.64

Circle Center At X = -13.4 ; Y = 1235.9 and Radius, 1184.6

*** 2.110 ***

Failure Surface Specified By 32 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	173.47	66.82
2	183.35	68.34
3	193.22	69.95
4	203.08	71.64
5	212.92	73.41
6	222.75	75.27
7	232.56	77.22
8	242.35	79.25
9	252.12	81.37
10	261.88	83.57
11	271.61	85.85
12	281.33	88.22
13	291.02	90.68
14	300.69	93.22
15	310.34	95.84
16	319.97	98.55
17	329.57	101.34
18	339.15	104.21
19	348.70	107.17
20	358.23	110.21
21	367.73	113.33
22	377.20	116.54
23	386.65	119.82
24	396.06	123.19
25	405.45	126.64
26	414.80	130.18
27	424.13	133.79
28	433.42	137.48
29	442.68	141.26
30	451.91	145.11
31	461.10	149.05

32 464.12 150.37
Circle Center At X = 3.8 ; Y = 1204.2 and Radius, 1150.0
*** 2.110 ***

ATTACHMENT E



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, MOBILE DISTRICT
600 VESTAVIA PARKWAY, SUITE 203
THE SHELBY BUILDING
VESTAVIA HILLS, AL 35216

April 17, 2025

North Branch
Regulatory Division

SUBJECT: Department of the Army Approved Jurisdictional Determination and Preliminary Jurisdictional Determination, File Number SAM-2024-00790-AMR, Landfill Site in Montgomery, Alabama - Corrected

Landsdown Environmental Solutions, LLC
Attention: Mr. Vince Labarbera
170 County Road 40
Lowndesboro, Alabama 36752
Email Address: labar100@aol.com

Dear Mr. Labarbera,

Reference is made to your request for a Department of the Army (DA) Approved Jurisdictional Determination (AJD) and preliminary jurisdictional determination (PJD) concerning a 303-acre site proposed for a landfill located east of the Alabama River in Montgomery, Alabama. The project has been assigned number **SAM-2024-00790-AMR**, which should be referred to in all future correspondence with this office. Specifically, the project is located within Section 34, Township 17 North, Range 17 East. Center coordinates of the project are latitude 32.418777, longitude -86.340027, Montgomery County, Alabama.

Based on information obtained during our site visit on October 18, 2024, our review of the information and wetland determination data forms you furnished, and other desktop information available to our office, we have completed one Approved JD (AJD) for this site. Attached is one (1) AJD Memorandum for Record (MFR) that describes the features identified on the site that are not subject to the jurisdiction of the U.S. Army Corps of Engineers (USACE). Please be advised that this determination reflects current policy and regulation.

The features identified as WL1, WL2, EC3, WL4, EC9, EC11, and WL10 as depicted on the attached exhibits entitled Figures 7 and 8, are not waters of the United States and therefore are not subject to DA jurisdiction. The attached MFR #1 further describes these areas.

Please be advised this AJD MFR is based on current policy and regulation and are valid for a period of five (5) years from the date of this letter. If after the 5-year period these jurisdictional determinations have not been specifically revalidated by the USACE, they shall automatically expire. If the information you have submitted, and on which the USACE has based its determinations is later found to be in error, these decisions may be revoked.

Also attached to this letter is a Preliminary Jurisdictional Determination (PJD) form for the other wetlands and tributaries identified on the project site. The PJD treats the waters of the U.S. on the site as jurisdictional for the purposes of determining impacts and mitigation requirements. The PJD is a non-binding action and shall remain in effect unless new information or a request for an approved jurisdictional determination supporting a revision is provided to this office. Please note that since this jurisdictional determination is preliminary, it is subject to change and therefore is not an appealable action under the Corps of Engineers administrative appeal procedures defined at 33 CFR 331.

Your delineation site was reviewed pursuant to Section 404 of the Clean Water Act. Section 404 of the Clean Water Act requires that a DA permit be obtained for the placement or discharge of dredged and/or fill material into waters of the U.S., including streams and wetlands, prior to conducting the work (33 U.S.C. 1344). For regulatory purposes, the USACE defines wetlands as those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. If future work proposed at this site includes a discharge or placement of dredged and/or fill material into waters of the U.S., a DA permit is required prior to initiating work.

This letter contains one AJD MFR. If you object to these determinations, you may request an administrative appeal under USACE regulations at 33 CFR Part 331. Attached you will find a Notification of Administrative Appeal (NAP) Options and Process and Request for Appeal (RFA) form. If you request to appeal these determinations, you must submit a completed RFA to the USACE, South Atlantic Division Office at the following mailing address and e-mail address: Jonathan Swartz, Acting Regulatory Review Officer, 60 Forsyth Street Southwest, Floor M9, Atlanta, Georgia 30303; Jonathan.M.Swartz@usace.army.mil.

In order for an RFA to be accepted, the USACE must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this letter.

The statements contained herein do not convey any property rights, or any exclusive privileges and do not authorize any injury to property or obviate the requirements to obtain other local, State or Federal approvals required by law. Nothing in this letter shall be construed as excusing you from compliance with other Federal, State, or local statutes, ordinances, or regulations which may affect this work.

The delineation included herein has been conducted to identify the location and extent of the aquatic resources for purposes of the Clean Water Act for the particular site identified in this request. This delineation may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should discuss the

applicability of an NRCS Certified Wetland Determination with the local USDA service center, prior to starting work.

If you intend to sell property that is part of a project that requires DA authorization, it may be subject to the Interstate Land Sales Full Disclosure Act. The Property Report, required by Housing and Urban Development Regulation, must state whether or not a permit for the development has been applied for, issued, or denied by the USACE (Part 320.3(h) of Title 33 of the Code of Federal Regulations).

An electronic copy of this letter is being provided to your agent, Todd Hill with Vanasse Hangen Brustlin at thill@vhb.com.

We appreciate your cooperation with the Corps of Engineers' Regulatory Program. Please refer to file number **SAM-2024-00790-AMR** in all future correspondence regarding this site or if you have any questions concerning this determination.

Please contact me by telephone at (251) 455-6785, or by e-mail at angela.m.rangel@usace.army.mil should you have any questions. For additional information about our Regulatory Program, please visit our web site at www.sam.usace.army.mil/Missions/Regulatory.aspx. Also, please take a moment to complete our customer satisfaction survey located under the menu header on the right side of the webpage. Your responses will help us improve our services.

Sincerely,

Angela Rangel
Senior Project Manager
North Branch
Regulatory Division

Attachments



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, MOBILE DISTRICT
600 VESTAVIA PARKWAY, SUITE 203
VESTAVIA HILLS, ALABAMA 35216

CESAM-RD-N

April 17, 2025

MEMORANDUM FOR RECORD

SUBJECT: US Army Corps of Engineers (Corps) Pre-2015 Regulatory Regime
Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322
(2023),¹ SAM-2024-00790-AMR (MFR # 1 of #1)²

BACKGROUND. An Approved Jurisdictional Determination (AJD) is a Corps document stating the presence or absence of waters of the United States on a parcel or a written statement and map identifying the limits of waters of the United States on a parcel. AJDs are clearly designated appealable actions and will include a basis of JD with the document.³ AJDs are case-specific and are typically made in response to a request. AJDs are valid for a period of five years unless new information warrants revision of the determination before the expiration date or a District Engineer has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.⁴ For the purposes of this AJD, we have relied on section 10 of the Rivers and Harbors Act of 1899 (RHA),⁵ the Clean Water Act (CWA) implementing regulations published by the Department of the Army in 1986 and amended in 1993 (references 2.a. and 2.b. respectively), the 2008 *Rapanos-Carabell* guidance (reference 2.c.), and other applicable guidance, relevant case law and longstanding practice, (collectively the pre-2015 regulatory regime), and the *Sackett* decision (reference 2.d.) in evaluating jurisdiction.

This Memorandum for Record (MFR) constitutes the basis of jurisdiction for a Corps AJD as defined in 33 CFR §331.2. The features addressed in this AJD were evaluated consistent with the definition of “waters of the United States” found in the pre-2015 regulatory regime and consistent with the Supreme Court’s decision in *Sackett*. This AJD did not rely on the 2023 “Revised Definition of ‘Waters of the United States,’” as

¹ While the Supreme Court’s decision in *Sackett* had no effect on some categories of waters covered under the CWA, and no effect on any waters covered under RHA, all categories are included in this Memorandum for Record for efficiency.

² When documenting aquatic resources within the review area that are jurisdictional under the Clean Water Act (CWA), use an additional MFR and group the aquatic resources on each MFR based on the TNW, interstate water, or territorial seas that they are connected to. Be sure to provide an identifier to indicate when there are multiple MFRs associated with a single AJD request (i.e., number them 1, 2, 3, etc.).

³ 33 CFR 331.2.

⁴ Regulatory Guidance Letter 05-02.

⁵ USACE has authority under both Section 9 and Section 10 of the Rivers and Harbors Act of 1899 but for convenience, in this MFR, jurisdiction under RHA will be referred to as Section 10.

amended on 8 September 2023 (Amended 2023 Rule) because, as of the date of this decision, the Amended 2023 Rule is not applicable in Alabama due to litigation.

1. SUMMARY OF CONCLUSIONS.

- a. Provide a list of each individual feature within the review area and the jurisdictional status of each one (i.e., identify whether each feature is/is not a water of the United States and/or a navigable water of the United States).

Waters ID	TYPE	Acre/LF	Latitude	Longitude	Geographic Authority
WL 1	PSS	17.2 Acre	32.425947	-86.342145	Non-Jurisdictional
WL 2	PSS	2.2 Acre	32.421180	-86.340716	Non-Jurisdictional
EC 3	R6	491.1 LFT	32.420437	-86.340642	Non-Jurisdictional
WL 4	PSS	0.97 Acre	32.420981	-86.432113	Non-Jurisdictional
EC 9	R6	151.1 LF	32.415416	-86.339167	Non-Jurisdictional
WL 10	PFO	2.59 Acre	32.417048	-86.337710	Non-Jurisdictional
EC 11	R6	609.3 LF	32.414576	-86.339238	Non-Jurisdictional

2. REFERENCES.

- a. Final Rule for Regulatory Programs of the Corps of Engineers, 51 FR 41206 (November 13, 1986).
- b. Clean Water Act Regulatory Programs, 58 FR 45008 (August 25, 1993).
- c. U.S. EPA & U.S. Army Corps of Engineers, Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States* (December 2, 2008)
- d. *Sackett v. EPA*, 598 U.S. 651, 143 S. Ct. 1322 (2023)

3. REVIEW AREA. The review area is limited to the features identified as WL1, WL2, EC3, WL4, EC9, EC11, and WL10 located within a 303-acre parcel located at latitude 32.418777, and longitude -86.340027 at the center of the review area, Montgomery, Montgomery County, Alabama. A preliminary Jurisdictional Determination (PJD) will be conducted and prepared for WL 5 (forested wetland), WL 6 (forested wetland), WL 8 (forested wetland) and IS 7 (intermittent stream).

4. NEAREST TRADITIONAL NAVIGABLE WATER (TNW), INTERSTATE WATER, OR THE TERRITORIAL SEAS TO WHICH THE AQUATIC RESOURCE IS CONNECTED. The nearest downstream TNW is the Alabama River. The Alabama River is approximately 250 feet southwest of the project boundary. The nearest TNW was determined by reviewing the Section 10 layer in the National Regulatory Viewer (NRV) in relation to the project site. The Alabama River is on the Mobile District's Section 10 waters list.
5. FLOWPATH FROM THE SUBJECT AQUATIC RESOURCES TO A TNW, INTERSTATE WATER, OR THE TERRITORIAL SEAS

WL 1 is a 17.2-acre scrub shrub wetland located in the north section of the review area. WL 1 is surrounded by uplands and does not have a flow path to a TNW, interstate water or territorial seas.

WL 2 is a 2.2-acre scrub shrub wetland located in the eastern mid-section of the review area. WL2 flows south into EC3, a non-Relatively Permanent Water (non-RPW). EC3 flows south for 491.1 linear feet (LF) where the flow ends in a young pine forest as sheet flow. W2 and EC3 are surrounded by uplands and do not have a flow path to a TNW, interstate water or territorial seas.

WL 4 is a 0.97-acre scrub shrub wetland located in the middle of the review area. WL 4 is surrounded by uplands and does not have a flow path to a TNW, interstate water or territorial seas.

EC 9 is a non-RPW that flows from WL 8 south into WL 6 which flows into IS 7, a seasonal RPW. IS 7 flows 644 LF south to the south project boundary and continues to flow 900 LF south off-site into the Alabama River, a TNW.

WL 10 is a 2.59-acre forested wetland that flows into EC 11, a non-RPW. EC 11 flows southwest into a scrub shrub area where sheet flow spreads over the land. W10 and EC 11 are surrounded by uplands and do not have a flow path to a TNW, interstate water or territorial seas.

6. SECTION 10 JURISDICTIONAL WATERS⁶: Describe aquatic resources or other features within the review area determined to be jurisdictional in accordance with

⁶ 33 CFR 329.9(a) A waterbody which was navigable in its natural or improved state, or which was susceptible of reasonable improvement (as discussed in § 329.8(b) of this part) retains its character as "navigable in law" even though it is not presently used for commerce, or is presently incapable of such use because of changed conditions or the presence of obstructions.

Section 10 of the Rivers and Harbors Act of 1899. Include the size of each aquatic resource or other feature within the review area and how it was determined to be jurisdictional in accordance with Section 10.⁷ N/A.

7. SECTION 404 JURISDICTIONAL WATERS: Describe the aquatic resources within the review area that were found to meet the definition of waters of the United States in accordance with the pre-2015 regulatory regime and consistent with the Supreme Court's decision in *Sackett*. List each aquatic resource separately, by name, consistent with the naming convention used in section 1, above. Include a rationale for each aquatic resource, supporting that the aquatic resource meets the relevant category of "waters of the United States" in the pre-2015 regulatory regime. The rationale should also include a written description of, or reference to a map in the administrative record that shows, the lateral limits of jurisdiction for each aquatic resource, including how that limit was determined, and incorporate relevant references used. Include the size of each aquatic resource in acres or linear feet and attach and reference related figures as needed.
 - a. TNWs (a)(1): N/A.
 - b. Interstate Waters (a)(2): N/A.
 - c. Other Waters (a)(3): N/A.
 - d. Impoundments (a)(4): N/A.
 - e. Tributaries (a)(5): N/A.
 - f. The territorial seas (a)(6): N/A.
 - g. Adjacent wetlands (a)(7): N/A.
8. NON-JURISDICTIONAL AQUATIC RESOURCES AND FEATURES
 - a. Describe aquatic resources and other features within the review area identified as "generally non-jurisdictional" in the preamble to the 1986 regulations (referred to as "preamble waters").⁸ Include size of the aquatic resource or feature within

⁷ This MFR is not to be used to make a report of findings to support a determination that the water is a navigable water of the United States. The district must follow the procedures outlined in 33 CFR part 329.14 to make a determination that water is a navigable water of the United States subject to Section 10 of the RHA.

⁸ 51 FR 41217, November 13, 1986.

the review area and describe how it was determined to be non-jurisdictional under the CWA as a preamble water. N/A.

- b. Describe aquatic resources and features within the review area identified as “generally not jurisdictional” in the *Rapanos* guidance. Include size of the aquatic resource or feature within the review area and describe how it was determined to be non-jurisdictional under the CWA based on the criteria listed in the guidance. N/A.
- c. Describe aquatic resources and features identified within the review area as waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA. Include the size of the waste treatment system within the review area and describe how it was determined to be a waste treatment system. N/A.
- d. Describe aquatic resources and features within the review area determined to be prior converted cropland in accordance with the 1993 regulations (reference 2.b.). Include the size of the aquatic resource or feature within the review area and describe how it was determined to be prior converted cropland. N/A.
- e. Describe aquatic resources (i.e. lakes and ponds) within the review area, which do not have a nexus to interstate or foreign commerce, and prior to the January 2001 Supreme Court decision in “SWANCC,” would have been jurisdictional based solely on the “Migratory Bird Rule.” Include the size of the aquatic resource or feature, and how it was determined to be an “isolated water” in accordance with SWANCC. N/A.
- f. Describe aquatic resources and features within the review area that were determined to be non-jurisdictional because they do not meet one or more categories of waters of the United States under the pre-2015 regulatory regime consistent with the Supreme Court’s decision in *Sackett* (e.g., tributaries that are non-relatively permanent waters; non-tidal wetlands that do not have a continuous surface connection to a jurisdictional water).

WL 1 is a 17.2-acre scrub shrub wetland located in the north section of the review area. WL 1 extends outside of the property boundary to the west-southwest. WL 1 is surrounded by uplands and does not have a flow path to a TNW, interstate water or territorial seas. Therefore, this wetland is non-jurisdictional.

EC3 is a non-relatively permanent stream that flows out of WL2 for a distance of 491.1 LF and ends in a young forest as overland sheet flow. EC3 does not exhibit flowing or standing water and lacks hydric soil indicators; therefore, the flow regime was

determined to be non-relatively permanent. EC3 is not jurisdictional because it exhibits non-relatively permanent flow.

WL 2 is a 2.2-acre scrub shrub wetland located in the eastern mid-section of the review area. WL2 abuts EC3, a non-RPW as described above. WL2 does not have a continuous surface connection to a TNW, interstate water, territorial seas, relatively permanent tributary, or impoundment; therefore, WL 2 is not jurisdictional.

WL 4 is a 0.97-acre scrub shrub wetland located in the middle of the parcel. WL 4 is surrounded by uplands and does not have a continuous surface connection to a TNW, interstate water, territorial seas, relatively permanent tributary or impoundment; therefore, WL 4 is non-jurisdictional.

EC 9 is a non-RPW that flows from WL 8 south for 151.1 feet into WL 6. EC 9 does not exhibit standing or flowing water at least seasonally or hydric soil indicators; therefore, it was determined to have non-relatively permanent flow regime and is not jurisdictional.

EC11 is a non-relatively permanent stream that flows southwest from WL10 for a distance of 609.3 LF into an upland shrubby area and turns into overland sheet flow. EC11 does not exhibit flowing or standing water at least seasonally and lacks hydric soil indicators; therefore, the flow regime was determined to be non-relatively permanent. EC11 is not jurisdictional because it exhibits non-relatively permanent flow.

WL 10 is a 2.59-acre forested wetland that abuts EC 11, a non-RPW as described above. WL 10 does not have a continuous surface connection to a TNW, interstate water, territorial seas, relatively permanent tributary, or impoundment; therefore, WL10 is not jurisdictional.

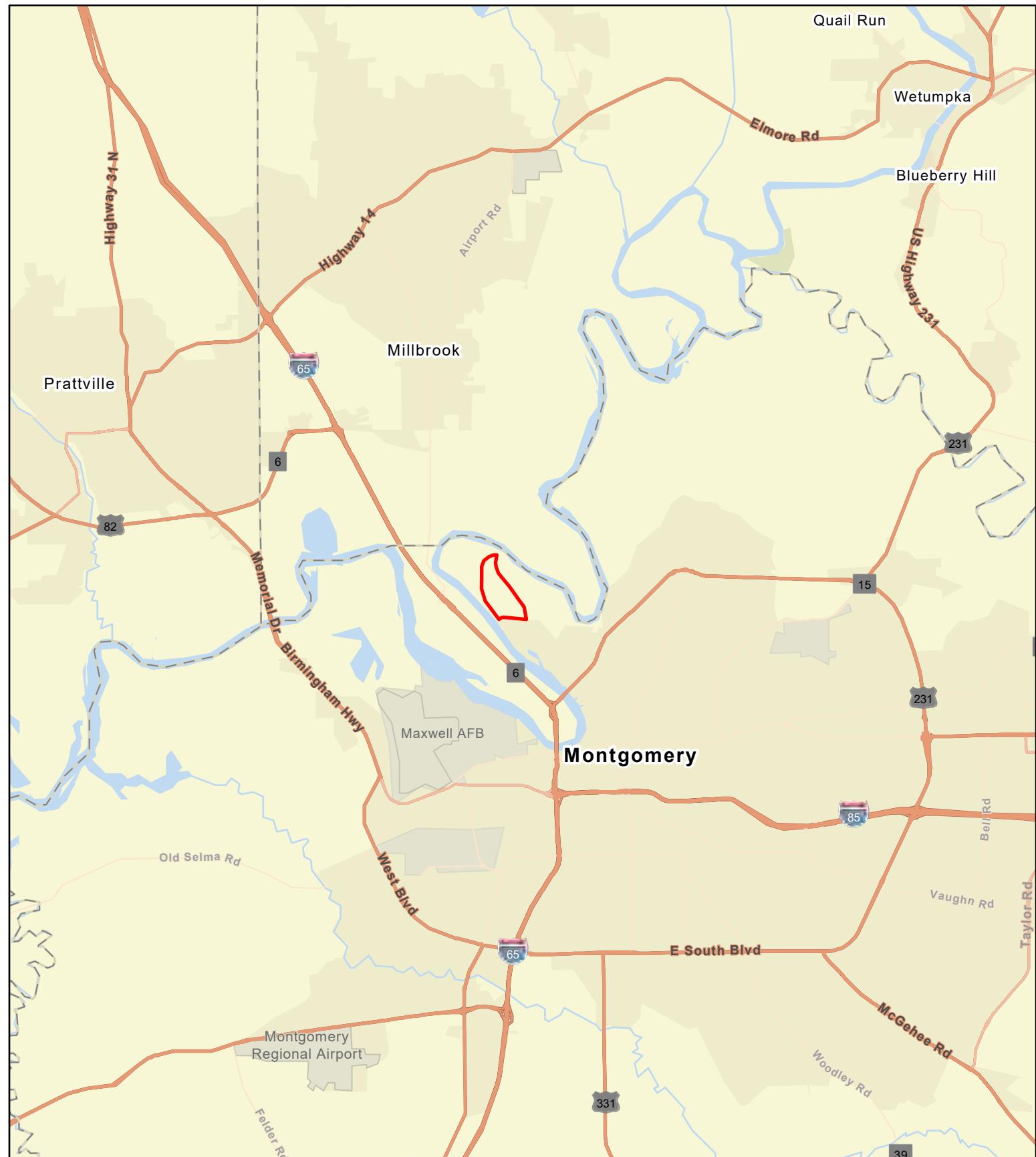
9. DATA SOURCES. List sources of data/information used in making determination. Include titles and dates of sources used and ensure that information referenced is available in the administrative record.
 - a. The site visit was conducted October 18, 2024.
 - b. LIDAR, September 18, 2024 accessed via NRV.
 - c. National Hydrography Dataset, September 18, 2024 accessed via NRV.
 - d. Historical Aerials, September 18, 2024, accessed via Google Earth.

- e. Landsdown Environmental Solutions Wetland Delineation Report, August 26, 2024.

10. OTHER SUPPORTING INFORMATION.

“Memorandum to the Field Between the U.S. Department of the Army, U.S. Army Corps of Engineers, and the U.S. Environmental Protection Agency Concerning the Proper Implementation of ‘Continuous Surface Connection’ Under the Definition of ‘waters of the United States’ Under the Clean Water Act”, March 12, 2025”

11. NOTE: The structure and format of this MFR were developed in coordination with the EPA and Department of the Army. The MFR’s structure and format may be subject to future modification or may be rescinded as needed to implement additional guidance from the agencies; however, the approved jurisdictional determination described herein is a final agency action.



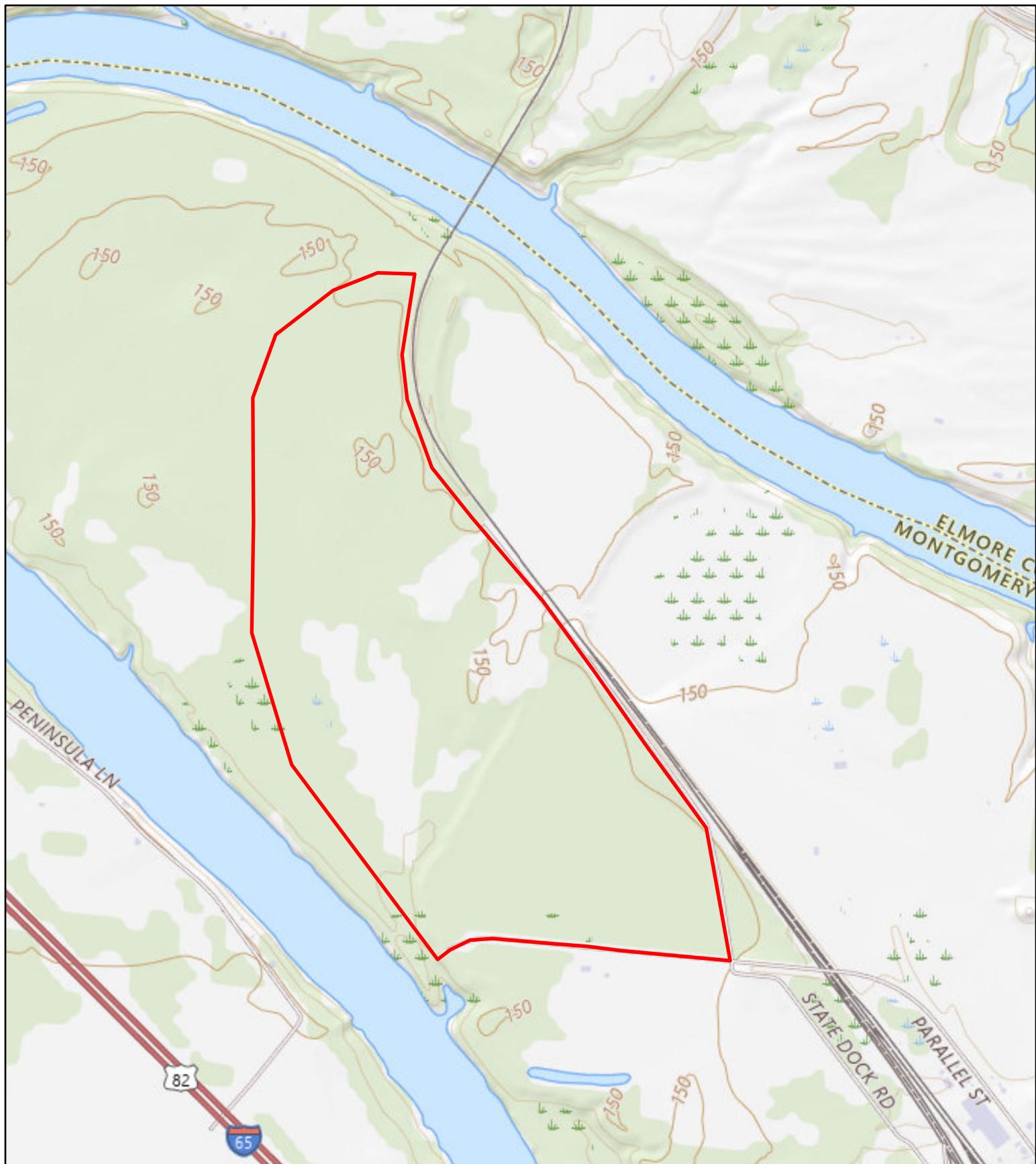
Landsdown Site
Montgomery County, AL

Figure 1. Project Vicinity

Project Boundary

0 1 2 3 4 5 Miles





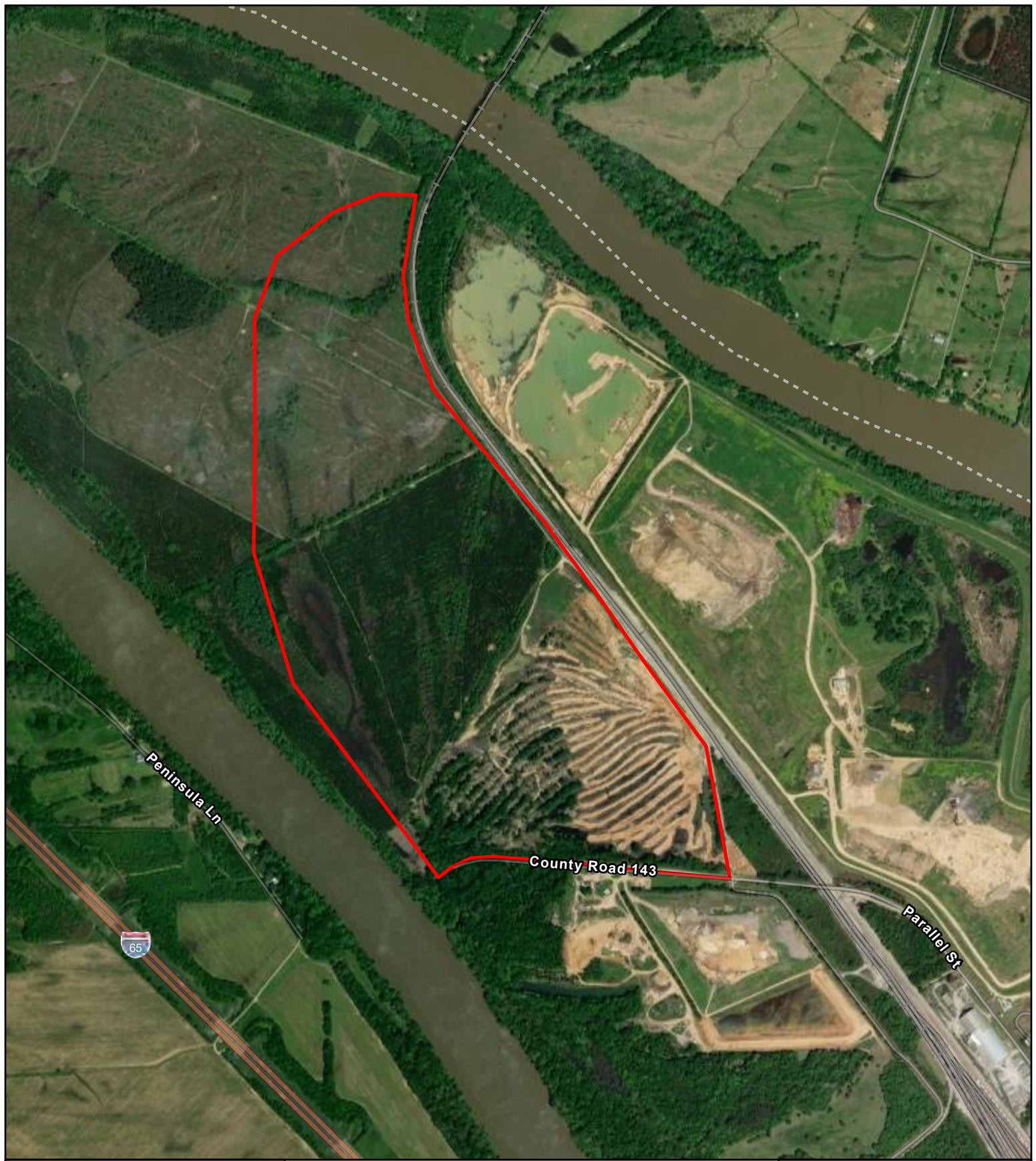
Landsdown Site
Montgomery County, AL

**Figure 2. Site Location
Topo**

Project Boundary

0 500 1,000 2,000
Feet





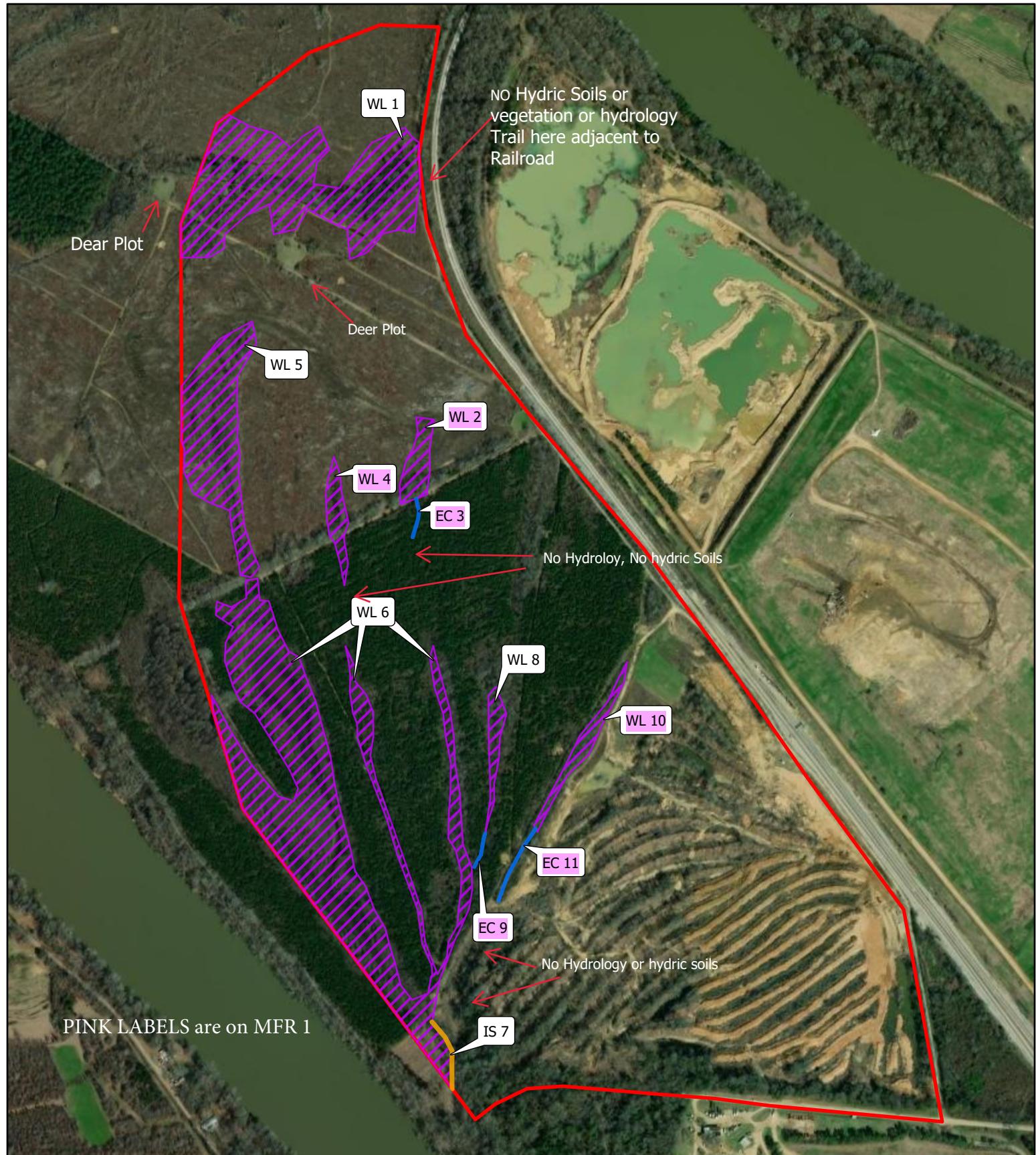
Landsdown Site
Montgomery County, AL

Figure 3. Site Location
Aerial

Project Boundary

0 500 1,000 2,000
Feet

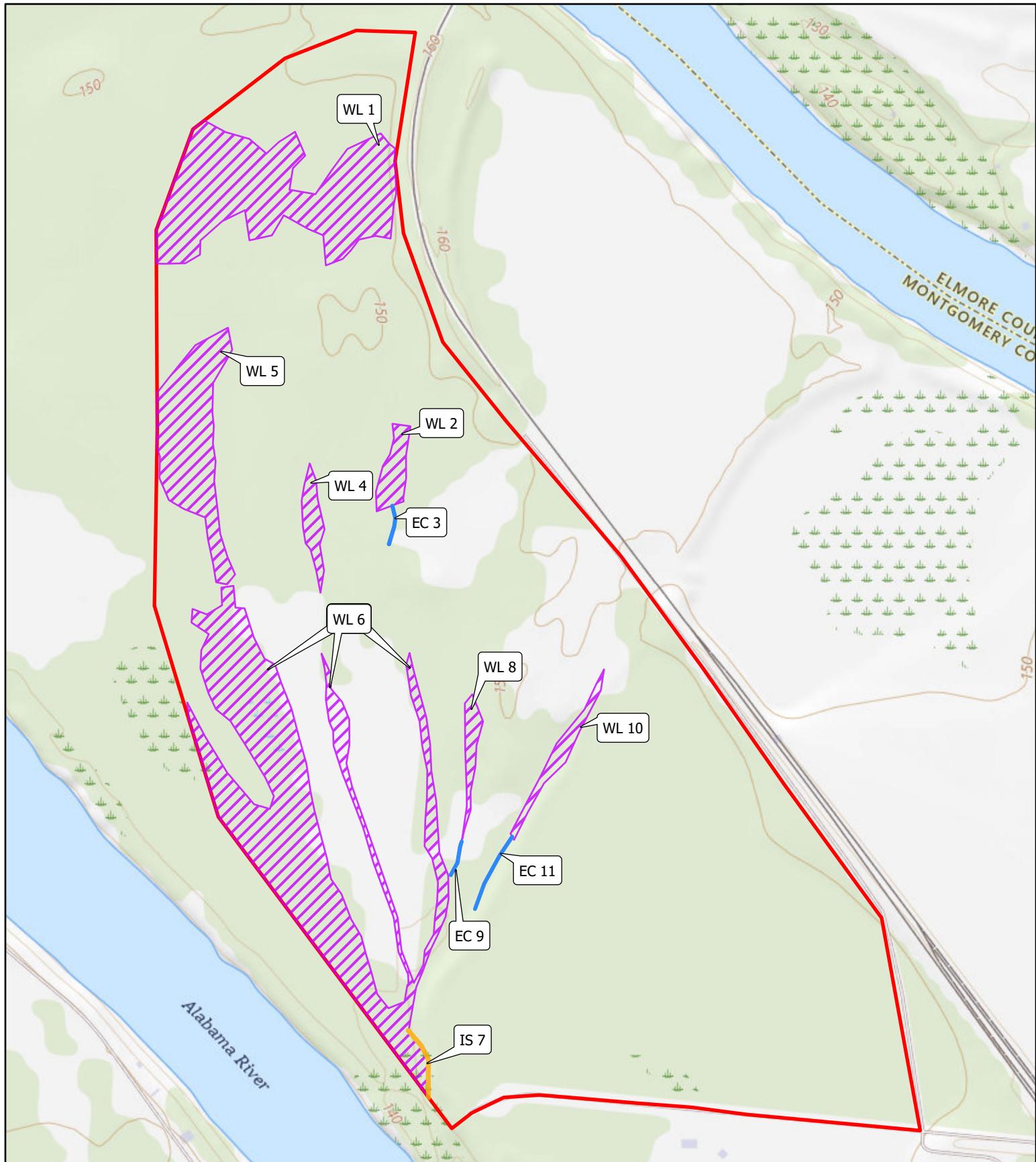




Landsdown Site
Montgomery County, AL

Figure 7. Waters, Aerial





Landsdown Site
Montgomery County, AL

Figure 8. Waters,
Topo

Project Boundary
Wetland

Ephemeral Channel
Intermittent Stream

0 500 1,000 2,000
Feet

N
▲



Legend

Override 1

Landsdown GIS Data 20240919 - Water Resources



SAM-2024-790-AMR

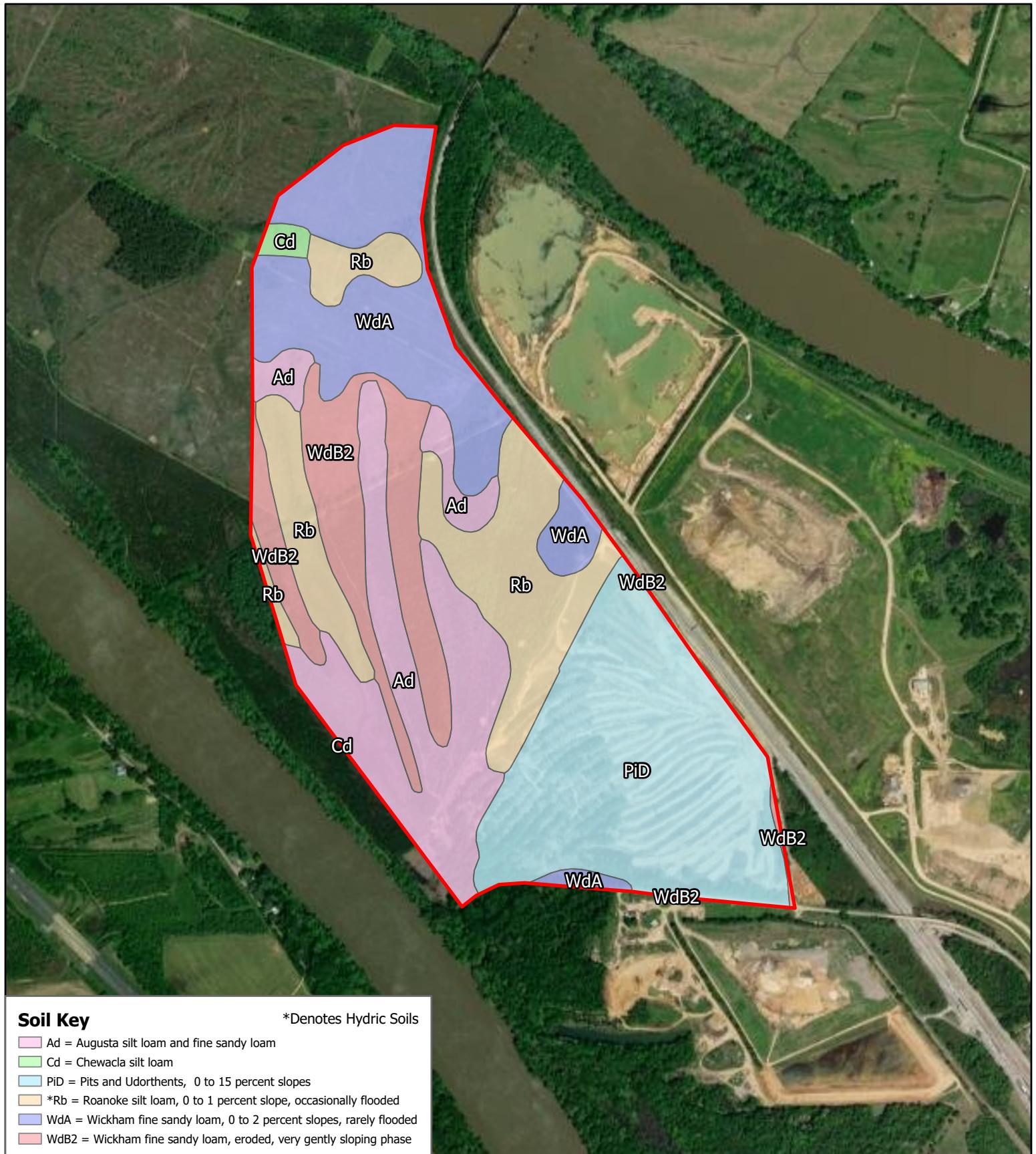
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mi

Map Center: 86.348223°W 32.422744°N

Map Created by: PM NAME

Date: 3/7/2025

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere



Landsdown Site
Montgomery County, AL

Figure 5. Soils

Project Boundary

0 500 1,000 2,000 Feet



Legend



Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA, USGS National Map 3D Elevation Program (3DEP), August 27, 2024, Maxar



SAM-2024-790-AMR

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mi

Map Center: 86.345251°W 32.416079°N

Map Created by: Rangel

Date: 9/18/2024

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere

FEE SHEET FOR SOLID WASTE PERMITS

ADEM No.: 34952

Applicant: Landsdown Environmental Solutions LLC

Location: Landsdown Environmental Solutions

Montgomery County, AL

Coordinates 32.426438°, -86.348453°

Permit No.: 51-11

Date Application Received: 07/01/25

Permit Fees Required	Initial Issuance	Modification	Reissuance	Total
Municipal Solid Waste Landfill	\$83,880		\$37,270	
		\$3,275		
		\$32,615		
Construction/Demolition Landfill	\$7,145		\$5,400	
		\$1,460		
		\$2,915		\$2,915
Industrial Landfill	\$12,670		\$8,150	
		\$1,460		
		\$4,375		
Compost Facility	\$4,860		\$3,670	
		\$1,225		
		\$1,945		
Environmental Covenants				
	\$6,425	\$1,610		
	\$13,705	\$635		
	\$9,420	\$635		
	\$5,245	\$635		

Additional Fees				
Geological Review:	\$4,865	\$3,275	\$3,275	
Greenfield Site:	\$1,610			
Public Hearing:	\$8,450	\$8,450	\$8,450	
Name Change/Transfer:		\$800		
Variance Request	\$1,460	\$1,460	\$1,460	\$1,460
Solid Waste Disposal Notification	\$215	\$215	\$215	

¹ These are modifications as included in ADEM Admin. Code Rule 335-13-5-.06(2)

² These are modifications as included in ADEM Admin. Code Rule 335-13-5-.06(1)

RECEIVED

JUL 01 2025

ADEM
EDDS

Fee Schedule Prepared by:

1GB

Date: 7/1/25 ①

Fee Schedule Reviewed by:

JNL

Date: 7/1/25 ①

Amount to be Refunded:

\$4,375
\$4,375
\$4,375
\$0

2023/2025

Alabama Department of Environmental Management

Permit No 51-11 Major Modification Fee & Variance F

4,375.00

Received

JUN 26 2020

Land Division

Operations Plan

Landsdown Environmental Solutions

Landsdown Environmental Solutions, LLC
170 County Road 40
Lowndesboro, AL 36752
(540) 379-6990

SCS ENGINEERS

09222096.03 | December 2025

1 Saint Louis Street, Suite 1001
Mobile, AL 36602
251-283-6444

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Appendix A Equipment, Personnel, Working Face Size, and Cover Soil Needs

1.0 BACKGROUND

1.1 FACILITY INFORMATION

Landsdown Environmental Solutions, LLC (Landsdown) owns and operates the Landsdown Environmental Solutions Landfill (facility) in Montgomery County, Alabama. The facility is located off Parallel Street in Montgomery, Alabama.

The facility is permitted as a construction and demolition debris landfill by the Alabama Department of Environmental Management (ADEM) under Solid Waste Disposal Facility Permit No. 51-11.

Landsdown's current permitted service area consists of the entire state of Alabama. The facility is currently permitted to accept up to 2,500 cubic yards per day of non-putrescible and non-hazardous construction and demolition waste, discarded tires, and rubbish.

The landfill has not yet been constructed. Landsdown will commence construction of the first cell of the landfill within two years of issuance of the final modified permit.

1.2 PERSONNEL

Landsdown will employ a number of full-time staff who are responsible for the day-to-day operation of the landfill. The primary staff roles at the landfill and some of their major responsibilities are described below:

Landfill Manager

- Implementation of the Operations Manual;
- Maintaining compliance with facility permits and applicable local, state, and federal regulations;
- Verifying that all reporting and recordkeeping requirements are fulfilled;
- Direction, training, and supervision of landfill staff; and
- Confirming the completion of repairs and corrective actions related to landfill operations and permit requirements.

Scale House Attendant

- Monitoring of visitors to the site;
- Screening of incoming loads for unauthorized wastes;
- Recordkeeping of incoming waste;
- Managing scale house transactions and payments; and
- Directing incoming traffic to the tipping area.

Landfill Operator

- Monitoring loads during tipping for unauthorized wastes;
- Spreading and compacting of wastes;

- Covering the working face;
- Maintenance of side slopes;
- Maintenance of erosion and sediment control structures; and
- Performing maintenance and site inspections.

Changes in the volume of waste intake over time will influence the need for the quantity of personnel required at the landfill for daily operations. Appendix A provides a summary of the recommended number of personnel and equipment at various disposal rates.

1.2.1 Operator Certification

In accordance with ADEM Admin. Code 335-13-12, all public solid waste management facilities in the state of Alabama are required to have at least one certified operator on-site during hours of operation. In general, the following requirements must be met to obtain status as a Certified C&D Landfill Operator:

1. The applicant must file an application along with appropriate certification fee using ADEM Forms 011, 012, 013 to apply for new certification, reciprocal certification, or certification renewal respectively.
2. At a minimum, the applicant must be a graduate of high school or an accredited GED program, and have worked at a MSW landfill in the State of Alabama for at least 3 years.
3. The applicant must have attended at least 10 hours of relevant training or continuing education courses approved by the Department since April 15, 2008.

Certificates granted by the Department are renewable every 3 years. Certified operators seeking to renew their certification may do so by attending at least 30 hours of ADEM approved training courses.

Exceptions to these rules, and alternative paths to landfill operator certification, are described in further detail under ADEM Admin. Code 335-13-12-02(3)(g).

1.2.2 Training

All full-time personnel who work on-site will be provided basic awareness training upon hiring regarding the facility's operations, requirements of Permit No. 51-11, and applicable portions of ADEM Admin. Code Division 13. This awareness training should at a minimum cover:

- General requirements of Permit No. 51-11 and ADEM Division 13, including prohibited waste types.
- The contents of the Operations Manual, including emergency response procedures.
- The use of Personal Protective Equipment (PPE) and the safe operation of equipment at the landfill.

2.0 SITE ACCESS AND TRAFFIC CONTROL

2.1 GENERAL SITE ACCESS

Access to the site will be controlled by a lockable gate at the landfill entrance. Access will be restricted to the posted operating hours when a scale house attendant is on duty. The attendant will screen incoming traffic to restrict access by unauthorized haulers and prohibit the receipt of unauthorized wastes.

A sign outlining instructions for use of the site will be posted at the landfill entrance and include:

- The name of the facility;
- The name of the owner of the landfill permit;
- Days and hours of operation;
- Disposal Fees; and
- The types of waste accepted at the site.

2.2 ALL-WEATHER ACCESS ROADS

Access roads will be maintained to ensure all-weather access to the site by hauling vehicles during windy, wet, or cold weather conditions. Snow removal will occur as needed, such that daily operations are not hampered. Anti-skid materials, as appropriate, will be applied to road surfaces.

Other on-site roadways may be required on a temporary and permanent basis to serve the borrow area and for maintenance and services of on-site facilities. A stockpile of materials to construct and maintain all-weather roads to the active working face will be made available on site. The roads should be wide enough to handle two-way traffic and sturdy enough to carry heavy trucks in all weather. The recommended minimum width for roads is 24 feet.

2.3 TRAFFIC CONTROL

All vehicle traffic will enter the landfill from Parallel Street. The traffic will stop at the scale house for monitoring and recording. Visitor and employee parking is provided adjacent to the existing office and maintenance building.

Haul traffic will be routed from the scale house, along the access road, to the working face. The access road will be constructed and maintained in its original condition to provide access during inclement weather. Access to the active filling area will be provided from the main access road. Temporary roads will be constructed, as needed, to allow for safe access to the working face. Under no circumstances should traffic be allowed to drive on the side or back slopes of the landfill.

The working face area is the most equipment-intensive area of operation for the Facility. In this area, hauling vehicles arrive, turn around, back up to the working face, and unload the solid waste. Landfill operation equipment will continually spread and compact the solid waste as it is received. During normal operating conditions, only one working face will be active at any given time, with the solid waste at all other areas within the landfill secured by a minimum of 6 inches of initial cover.

The approach to the working face will be maintained in an accessible condition so that two or more vehicles may safely unload simultaneously side by side. When unloading is complete, the vehicles

will immediately leave the working face area. Entrance and exit haul roads will be provided (both temporary and permanent) and maintained to facilitate future unloading operations. Contractor personnel will direct traffic as necessary to expedite safe movement of vehicles and to ensure that all waste transport vehicles unload within the designated area. Traffic control measures, including directional signs, barriers, and spotters are recommended for use during peak traffic periods.

3.0 LANDFILL OPERATIONS

3.1 GENERAL FILLING OPERATIONS

Waste placement will vary depending on field conditions. Some lifts will be built from the bottom of the active working face. At the discretion of the operator, waste will also be placed from the top of the active working face and spread toward the bottom. Waste will be placed against the covered working face of the previous day's waste.

Generally, filling will advance from the high side of the disposal area to the low side: in other words, in a downgradient direction. This eliminates the possibility of trapping water behind the waste deposit during the initial operation of the cell. Markers will be placed to indicate the outside edge of the cell, so that filling operations do not extend outside the permitted areas and adequate room is left to allow for application of the final cover.

3.2 WASTE APPLICATION

3.2.1 Working Face

The landfill is permitted to operate a single working face in the active disposal area. The size of the working face should be limited to as small an area as possible while still allowing for efficient operations. The working face should never be extended so far as to prevent completion of a full lift for cover application. All waste should be placed onto a slope not to exceed 4 to 1 grades.

3.2.2 Compaction

The landfill operator should always strive to achieve the best compaction possible. The objective of compaction is to pack the trash as tightly as possible. To do this, the equipment used to compact the waste must be used properly. When a crawler tractor is used, greatest compaction occurs when the machine can climb the slope, shredding the waste as it climbs. When a landfill compactor is used, the slopes should be as flat as possible to take advantage of the weight of the machine for greater compaction and increased speed of passes over each lift of waste.

When pushing the waste, the loader operator should not attempt to push such a large amount that the machine bogs down. Full truck loads should be broken down into three bucket loads or two-foot-thick loose lift before compacting. The equipment should make four to six passes on each layer to achieve proper compaction. Large bulky items should be crushed with the loader bucket before being worked into the base of the working face. In addition, empty containers larger in size than normally found in household waste must be rendered unsuitable for holding liquids prior to disposal.

3.2.3 Lifts

Waste fill shall be spread in layers not exceeding 2-feet thick, before being compacted by a compactor or tracked equipment. A minimum of four to six passes will be made immediately with the compaction equipment upon placement of each layer of refuse. Refuse will be built up in lifts not exceeding 8-feet in thickness during each working day in order to avoid waste of cover material.

3.3 COVERING

3.3.1 Weekly Cover

Weekly cover may consist of a six-inch layer of compacted soil or any approved alternate cover applied over all solid waste at the end of the work day. Any of the on-site or locally available soils are suitable for weekly cover as long as they do not contain organic material. The purpose of the weekly cover is to provide a layer of inert material which will prevent the passage of flies, rodents, other pests, and odors. It also helps to decrease fires from spreading. Should a fire start on the landfill, the amount of trash which can burn is limited to that which is uncovered.

3.3.2 Stockpiles

It is recommended that a sufficient supply of cover material be maintained in stockpiles adjacent to the working face. Since the borrow source for this landfill is near the landfill cells, and there is a significant surplus of cover material on site, maintaining cover soil near the working face should not be difficult.

3.3.3 Intermediate Cover

Intermediate cover is applied to any part of the fill surface that will not receive additional fill for more than 30 days or has reached final elevations. Intermediate cover consists of an additional six inches of soil applied over the six inches of weekly cover. Since the intermediate cover will usually be the filling surface for later lifts, it should be a material that will not limit the movement of vehicles in inclement weather. Intermediate cover may be placed with the weekly cover or later depending on the operating circumstances. Intermediate cover should be inspected on a weekly basis and any eroded or cracked areas should be repaired. Temporary seeding is recommended if filling will not occur in the intermediate cover area in 30 days or more.

3.3.4 Final Cover

Final cover is placed after filling of a cell has been completed, no additional waste will be placed, and the cell is in compliance with its permitted final grades. Final cover will comply with the facility's permitted engineering plans and Closure Plan. Placement of final cover should be monitored for compaction and to ensure the correct material is used and placed to the correct depths. Placement of final cover will be in accordance with the approved closure plan that has been developed as a separate document.

3.3.5 Vegetative Cover

Vegetative cover will be applied to areas that have received final soil cover, or to long-term intermediate cover, as appropriate. The vegetative cover will be grasses that are locally available and common. No special landscaping for buffer, screening, or aesthetics is planned. Planting schedules will be in accordance with common practice in the area. The seed mixture will be in accordance with recommended mixes included in the Alabama Handbook for Erosion Control, Sediment Control and Stormwater on Construction Sites and Urban Areas and recommendations by the local agricultural extension office. Within four months of placement of the final cover, a vegetative cover will be established.

4.0 ENVIRONMENTAL PROTECTION

4.1 LITTER CONTROL

In accordance with ADEM Admin. Code 335-13-4-.22(2)(b), the landfill will control litter within the permitted facility. Recommended litter control procedures for the landfill are discussed below:

- a. Whenever possible, unload vehicles at the base of the working slopes to use the working face itself as a wind screen.
- b. If possible, back vehicles into the wind when unloading. Unloading against the wind can help to keep the load compacted until the loader can push the waste onto the working face.
- c. Place cover soil material over light wastes to minimize mobilization on windy days. Construction or demolition debris can also be placed on top of paper and light wastes, until cover soil is placed at the end of the day.
- d. Litter fences can be used to catch some blowing litter. Short fencing such as snow fence is easily erected and moved. If fencing is used for litter control, it should be cleaned regularly.

At the end of each week, the access road, drainage ditches, and the site entrance should be policed of any fugitive waste, debris or litter that may have fallen from vehicles transporting wastes to the landfill.

4.2 DUST CONTROL

Excessive dust can be a nuisance and a hazard to landfill operations. Dust on the access roads can impair or obstruct vision of drivers, potentially leading to accidents. Dust can also irritate eyes and lungs. Water can be used to control dust but only to the extent that no saturation or ponding occurs. Maintaining areas for use in wet weather and removing mud deposited on roads will also minimize dust generated.

Excessive mud and dirt on paved roads should be removed when possible. Water should not be used to clean paved roadways if freezing weather is occurring or anticipated.

4.3 VECTOR CONTROL

The best control method for vectors and odors is the compaction and covering of wastes. Compacted cover of at least 6 inches of soil, or other approved alternate cover material, will prevent flies from emerging, provide less of an invitation to rats and birds, and slow the release of odors. Surface cracks and other defects identified in the applied weekly cover should be repaired as soon as possible.

4.4 SCAVENGING AND SALVAGING

Except for such operations that are conducted as part of an ADEM-approved recycling program, scavenging and salvaging are not permitted at the facility. If the volume of recyclable goods is sufficient, as determined by the Landfill Manager, those items may be separated from the waste which is to be disposed.

4.5 LANDFILL GAS

The Landfill Gas Management Plan developed for this site addresses the venting and control of decomposition gases necessary to protect the facility cap and to prevent migration into facility structures or beyond the facility boundary. Gas monitoring locations should be kept cleared and accessible for monitoring. Refer to the facility's Landfill Gas Management Plan for management details.

4.6 STORMWATER MANAGEMENT

The facility has been designed to control run-on and runoff resulting from the peak discharges from the 25-year, 24-hour storm in accordance with ADEM Admin. Code 335-13-4-17.

5.0 LANDFILL EQUIPMENT

5.1 EQUIPMENT LIST

Volume fluctuations in the waste stream will likely impact the number and type of equipment needed to perform daily operations. The table in Appendix A provides a list of the equipment that are recommended to be utilized at various disposal rates. As the waste rate increases, additional equipment may be necessary. As the site expands, the access road and haul roads may be shifted to accommodate efficient equipment movement around the site.

5.2 EQUIPMENT MAINTENANCE

Routine preventive maintenance minimizes equipment downtime and increases equipment service life. Therefore, the appropriate operation and maintenance (owner's) manual should be consulted. However, applicable maintenance activities implemented at the site include:

- A routine inspection program;
- Routine lubrication; and,
- Maintenance records up-keep.

Any deficiencies found during equipment inspections will be repaired to working condition or replaced in a timely manner. If the deficiency is deemed to potentially present a safety hazard, the landfill manager will be notified and the equipment will be strictly prohibited from use until repaired.

5.3 SPARE EQUIPMENT

It is recommended that sufficient backup equipment be provided on site for equipment breakdowns and downtime for normal routine equipment maintenance. Pre-arrangements with contractors and rental equipment dealers can be made to furnish equipment on short notice in the case of a major equipment failure.

6.0 SAFETY

6.1 GENERAL SAFETY

Proper equipment operating instructions and techniques will be provided by the equipment manufacturer upon purchase of equipment. The following measures will be followed at the landfill to minimize the occurrence of injuries to personnel and damage to equipment.

- a. The site will be accessible only to landfill personnel, authorized consultants, contractors, and customers, and State inspectors only when a certified operator is on duty. At all other times, the entrance to the site will remain secured with a locked gate across the access road to preclude unauthorized vehicles from entering the site. All visitors to the site are required to check in at the scale house.
- b. Personnel authorized to operate the site will be provided training in accordance with Section 1.2.2 of this Plan.
- c. The site will be operated during daylight hours only.
- d. Equipment on site will be maintained and serviced on a routine basis.
- e. A copy of this Operations Plan will be maintained at the site.
- f. Drivers of incoming loads of waste will coordinate with site operators for the disposal of each load.
- g. The route from the entrance of the site to the working face of the fill areas should be clearly marked.
- h. Roads crucial to landfill operations will be maintained and passable in all weather.
- i. A first-aid kit will be located in the scale house.
- j. Fire extinguishers will be located in the scale house, maintenance building, and on each piece of heavy equipment assigned to the site.

More information on site health and safety operations, and emergency response procedures can be found in the facility Emergency Response Plan.

6.2 SITE COMMUNICATION AND SUPPLIES

Telephones are located in the scale house for use in emergencies. Cellular telephones and two-way radios may also be used. The scale house is equipped with a first aid kit and phone. The building also provides shelter for employees in case of inclement weather.

7.0 CLOSURE AND POST-CLOSURE

Details on facility closure and post-closure care for the facility are addressed in the facility Closure and Post-Closure Plan.

8.0 OPERATING RECORD

The operating record will be maintained on site in the scale house. The operating record will be accessible to the Facility operation personnel and will be available for inspection by ADEM. These records will be in accordance with Permit No. 51-11 and may include the following:

- Facility permits;
- Records of incoming waste;
- Special waste approvals and waste determination records;
- Operator certification records;
- Facility operational plans;
- Environmental monitoring records for the past three years; and
- Copies of all variances granted by the Department.

Appendix A

Equipment, Personnel, Working Face Size, and Cover Soil Needs

Range of Daily Intake Rate (tons/day)	Equipment		Personnel (per Shift)	Surface Area of Working Face (square feet)	Cover Soil (cubic yards)
	Equipment Type and Use	Operating Units			
0-1,000	Dozer (spread refuse and cover, compact waste, berm construction) (backup equipment) Compactor (spread, compact waste and cover material) Scraper pan (haul cover material) Loaders (optional)	1 1	Site Supervisor: 1 Operators: 1 Gate Attendant: 1	Lift Height= 8' SAWF = 1,350 sf	175 cy
1,000-2,000	Dozer (spread refuse and cover, compact waste, berm construction) (backup equipment) Compactor (spread, compact waste and cover material) Scraper pan (haul cover material) Loaders (optional)	2 1	Site Supervisor: 1 Operators: 2 Gate Attendant: 1	Lift Height= 8' SAWF = 2,700 sf	315 cy
2,000-3,000	Dozer (spread refuse and cover, compact waste, berm construction) (backup equipment) Compactor (spread, compact waste and cover material) Scraper pan (haul cover material) Loaders (optional)	3 1	Site Supervisor: 1 Operators: 3 Gate Attendant: 1	Lift Height= 8' SAWF = 4,050 sf	450 cy
3,000-5,000	Dozer (spread refuse and cover, compact waste, berm construction) (backup equipment) Compactor (spread, compact waste and cover material) Scraper pan (haul cover material) Loaders (optional)	3 1	Site Supervisor: 1 Operators: 3 Gate Attendant: 1	Lift Height= 8' SAWF = 5,400 sf	575 cy