

PRELIMINARY DETERMINATION

PERMIT MINOR MODIFICATION

EcoSouth Services of Mobile, LLC
12945 Highway 43 N
Axis, Alabama 36525

Axis Industrial Landfill
Permit No. 49-21

May 22, 2024

SCS Engineers, on behalf of EcoSouth Services of Mobile, LLC, has submitted to the Alabama Department of Environmental Management (ADEM) an application for minor modification to the Solid Waste Disposal Permit (Permit No. 49-21) for the Axis Industrial Landfill. The proposed modification would allow the installation of a new leachate storage tank to replace the existing frac tanks. Furthermore, the modification would allow the replacement of the existing leachate force main with a new dual contained leachate force main pipe. The Axis Industrial Landfill is described as being located in the Sections 1 and 18, Township 1 South, and Range 1 East near Highway 43 in Mobile County, Alabama. The permitted facility consists of approximately 70.3 acres with a disposal boundary of 23.8 acres for industrial waste in Phase I and 20.5 acres for municipal solid waste in Phase II. All other permit conditions will remain unchanged.

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

Technical Contact:
Blake Holden
Solid Waste Engineering Section
Land Division
(334)274-4248



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

PERMITTEE: EcoSouth Services of Mobile, LLC

FACILITY NAME: Axis Industrial Landfill

FACILITY LOCATION: Sections 1 and 18, Township 1 South, Range 1 East near Highway 43 in Mobile County. The permitted facility boundary consists of 70.3 acres with a disposal boundary of 23.8 acres for industrial waste and 20.5 acres for municipal solid waste.

PERMIT NUMBER: 49-21

PERMIT TYPE: Municipal Solid Waste Landfill

WASTE APPROVED FOR DISPOSAL: The Permittee may accept for disposal in Phase I (Cells 1-8) non-putrescible and non-hazardous construction and demolition waste, rubbish, and industrial waste streams approved by the Department; including approved wastewater sludges, total petroleum hydrocarbons, and automobile fluff (solid waste from automobile shedding). The Permittee may accept for disposal in Phase II (Cells 9-12) non-hazardous, non-infectious putrescible and non-putrescible wastes including but not limited to municipal solid waste, construction and demolition waste, rubbish, commercial waste, and industrial waste streams approved by the Department; including approved wastewater sludges, total petroleum hydrocarbons, and automobile fluff (solid waste from automobile shredding).

AVERAGE WASTE VOLUME: Maximum Average Daily Volume of waste is 5000 tons per day

APPROVED SERVICE AREA: Baldwin, Clarke, Conecuh, Covington, Dale, Escambia, Houston, Mobile, Monroe, and Washington Counties in Alabama; Escambia, Okaloosa, Bay, Santa Rosa, and Walton Counties in Florida; and Jackson, Harrison, and Hancock Counties in Mississippi.

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

ISSUANCE DATE: December 1, 2021

EFFECTIVE DATE: December 1, 2021

MODIFICATION DATE: July 14, 2022, December 8, 2022, XXXXXXXXXXXXX

EXPIRATION DATE: November 30, 2031

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

Permittee: EcoSouth Services of Mobile, LLC
12945 Highway 43 N
Axis, AL 36505

Landfill Name: Axis Industrial Landfill

Landfill Location: Sections 1 and 18, Township 1 South, Range 1 East located near US Highway 43 in Mobile County, Alabama

Permit Number: 49-21

Landfill Type: Municipal Solid Waste Landfill

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

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

This permit is based on the information submitted to the Department on October 5, 2020, for permit renewal, and on March 1, 2022, March 22, 2022, and April 10, 2024 for permit modification, and as amended (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 the Department 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 December 1, 2021, modified on July 14, 2022, December 8, 2022, and XXXXXXXXXXXXXXXX and shall remain in effect November 30, 2031 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 Admin. Code 335-13. Issuance of this permit does not convey property rights of any sort or any exclusive privilege, nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local laws or regulations. Except for actions brought under Code of Alabama 1975, §§ 22-27-1 et seq., as amended, compliance with the conditions of this permit shall be deemed to be compliance with applicable requirements in effect as of the date of issuance of this permit and any future revisions.

B. Permit Actions

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

C. Severability

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

D. Definitions

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

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

E. Duties and Requirements

1. Duty to Comply

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

2. Duty to Reapply

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

3. Permit Expiration

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

4. Need to Halt or Reduce Activity Not A Defense

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

5. Duty to Mitigate

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

6. Proper Operation and Maintenance

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

7. Duty to Provide Information

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

8. Inspection and Entry

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

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

9. Monitoring, Corrective Actions, and Records.

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

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

- b. The Permittee shall retain records, at the location specified in Section I.,I., of all monitoring, or corrective action information, including all calibration and maintenance records, copies of all reports and records required by this permit, and records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report or record or for periods elsewhere specified in this permit. These periods may be extended by the request of 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 Department 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. Monitoring is subject to applicable conditions of Section VII. of the permit.
 - h. Copies of this Permit and the Application.
 - i. Copies of all variances granted by the Department, including copies of all approvals of special operating conditions.

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 the Department, and the reports shall be submitted at least semi-annually, or as directed by the Department. The reports should contain all monitoring results and conclusions from samples and measurements conducted during the sampling period. Explosive gas monitoring must be submitted on a quarterly basis, and the reports should be submitted to the Department and placed in the operating record within 30 days of the monitoring event. Copies of the semi-annual groundwater and quarterly explosive gas monitoring reports shall be maintained in the operating record.

4. Availability, Retention, and Disposition of Records.

- a. All records, including plans, required under this permit or ADEM Admin. Code 335-13 must be furnished upon request, and made available at reasonable times for inspection by any officer, employee, or representative of the Department.
- 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 the Department.
- c. A copy of records of waste disposal locations and quantities must be submitted to the Department and local land authority upon closure of the facility.

I. Documents to be Maintained by the Permittee

The Permittee shall maintain, at the EcoSouth Services of Mobile, LLC office, the following documents and amendments, revisions and modifications to these documents until an engineer certifies closure of the permitted landfill.

1. Operating record.
2. Closure Plan.

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

1. Mailing Address

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

2. Physical Address

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

K. Signatory Requirement

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

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

L. Confidential Information

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

M. State Laws and Regulations

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

SECTION II. GENERAL OPERATING CONDITIONS.

A. Operation of Facility

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

B. Open Burning

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

C. Prevention of Unauthorized Disposal

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

D. Unauthorized Discharge

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

E. Industrial and Medical Waste Disposal

The Permittee shall dispose of industrial waste as required by ADEM Admin. Code r. 335-13-4-.21(1)(c), and as specified in the Application. The Permittee, prior to disposal of industrial waste and/or medical waste, shall obtain from each generator a written certification that the material to be disposed does not contain free liquids, regulated hazardous wastes, regulated medical waste, or regulated PCB wastes.

F. Boundary Markers

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

G. Certified Operator

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

SECTION III. SPECIFIC REQUIREMENTS FOR MUNICIPAL SOLID WASTE 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 III.,B. Disposal of any other wastes is prohibited, except waste granted a temporary or one time waiver by the Director.
2. The permitted facility boundary for the Axis Industrial Landfill is approximately 70.3 acres, with a disposal boundary of 23.8 acres permitted for industrial waste and 20.5 acres permitted for municipal solid waste.
3. The combined maximum average daily volume disposed at the facility, as contained in the permit application, and approved by the Mobile County Commission, shall not exceed 5000 tons per day. Should the average daily volume exceed this value by 20% or 100 tons per day, whichever is less, for two (2) consecutive quarters the Permittee shall be required to modify the permit in accordance with ADEM Admin. Code r. 335-13-5-.06(2)(b)2. An increase in maximum average daily volume shall not be approved by the Department unless the Permittee has received local approval for the increased maximum average daily volume. The average daily volume shall be computed as specified by ADEM Admin. Code r. 335-13-4-.22(2)(g).

B. Waste Streams

The Permittee may accept for disposal in Phase I (Cells 1-8) non-putrescible and non-hazardous construction and demolition waste, rubbish, and industrial waste streams approved by the Department; including approved wastewater sludges, total petroleum hydrocarbons, and automobile fluff (solid waste from automobile shedding). The Permittee may accept for disposal in Phase II (Cells 9-12) non-hazardous, non-infectious putrescible and non-putrescible wastes including but not limited to municipal solid waste, construction and demolition waste, rubbish, commercial waste, and industrial waste streams approved by the Department; including approved wastewater sludges, total petroleum hydrocarbons, and automobile fluff (solid waste from automobile shedding).

C. Service Area

The service area for this landfill, as contained in the permit application is Baldwin, Clarke, Conecuh, Covington, Dale, Escambia, Houston, Mobile, Monroe and Washington Counties in Alabama; Escambia, Okaloosa, Bay, Santa Rosa, and Walton Counties in Florida; and Jackson, Harrison, and Hancock Counties in Mississippi. A change in service area shall not be approved by the Department unless the Permittee has received local approval.

D. Special Waste

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

1. Petroleum Contaminated Waste

The Permittee shall dispose of petroleum contaminated waste in accordance with ADEM Admin. Code r. 335-13-4-.26(4). All petroleum contaminated waste shall be disposed of in the composite-lined cells in Phase II.

E. Liner Requirements

The facility currently has two permitted phases. Phase I consists of a clay liner with leachate collection. In Phase II, the Permittee shall install a composite liner system as described in the Application that meets the requirements of ADEM Admin. Code 335-13-4-.18. In Phase II Cell 12, the Permittee shall install a composite liner and geo-grid as described in the Application that meets the requirements of ADEM Admin. Code 335-13-4-.18.

1. Approved Bottom Liner:
- 6" Protective Soil Layer
 - 12" Sand Drainage Layer
 - Double-sided Geocomposite Drainage Media
 - 60-mil HPDE Geomembrane
 - Geosynthetic Clay Liner (GCL)
 - 12" Compacted Clay Liner (Permeability of $\leq 1 \times 10^{-5}$ cm/sec)

The base of the composite liner system shall be a minimum of five (5) feet above the highest measurement of the groundwater level as determined by ADEM Admin. Code r. 335-13-4-.11(2)(a).

F. Septic Tank Pumpings and Sewage Sludge

The Permittee shall not dispose of septic tank pumpings and/or sewage sludge unless specifically approved in writing by the Department.

G. Large Dead Animals and Highly Putrescible Wastes

The Permittee shall handle the disposal of large dead animals and/or highly putrescible waste as required by ADEM Admin. Code r. 335-13-4-.22(1)(j). Disposal is allowed only in the municipal solid waste disposal area.

H. Cover Requirements

The Permittee shall cover all wastes as required by ADEM Admin. Code 335-13. A minimum of six inches of compacted earth or other alternative cover material approved by the Department shall be added at the conclusion of each week's activities in Phase I. A minimum of six inches of compacted earth or other alternative cover material approved by the Department shall be added at the conclusion of each day's activities in Phase II. The permittee is granted permission to use autofluff and residual short fiber (RSF) as alternative cover material. (See Section X.4. and X.5.) The Permittee shall cover Phase I at the end of the last

full week of each month's activities with earthen material. The Permittee shall cover Phase II at the end of each week's activities with earthen material.

I. Waste Compaction

All waste shall be thoroughly compacted with adequate landfill equipment before the daily cover is applied. A completed daily cell shall not exceed eight feet in vertical thickness measured perpendicular to the slope of the preceding cell.

J. Daily Cells

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 or as otherwise approved by the Department. The Permittee is granted a variance allowing working slopes of 3 to 1 (33%). (See Section X.6.) The Permittee is granted a variance from ADEM Admin. Code r. 335-13-4-.22 (1)(b) which will allow the facility to operate two working faces. One for industrial disposal operations in Phase I and one for MSW disposal operations in Phase II. (See Section X.1.)

K. Security

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

L. All Weather Access Roads

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

M. Adverse Weather Disposal

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

N. Personnel

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

O. Equipment

The Permittee shall provide the landfill equipment as required by ADEM Admin. Code r. 335-13-4-.22(1)(f).

P. Environmental Monitoring and Treatment Structures

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

Q. Vector Control

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

R. Bulk or Noncontainerized Liquid Waste

The Permittee shall not dispose of bulk or noncontainerized liquid waste, or containers capable of holding liquids, unless the conditions of ADEM Admin. Code r. 335-13-4-.22(1)(k) are met.

S. Empty Containers

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

T. Other Requirements

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

U. Other Permits

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

V. Scavenging and Salvaging Operations

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

W. Signs

The Permittee shall provide a sign outlining instructions for use of the site. The sign shall be posted and have the information required by ADEM Admin. Code r. 335-13-4-.22(1)(i).

X. Litter Control

The Permittee shall control litter.

Y. Fire Control

The Permittee shall provide fire control measures.

SECTION IV. GROUNDWATER MONITORING REQUIREMENTS.

A. The Permittee shall install and/or maintain a groundwater monitoring system, as specified below.

1. The permittee shall maintain the groundwater monitoring wells and piezometers identified in Table IV.1. at the locations specified in the Application, and any other groundwater monitoring wells which are added (Section IV.,A.,3.) during the active life and the post closure care period.
2. The Permittee shall maintain groundwater monitoring well MW-7 as the background groundwater monitoring wells for the entire facility.
3. The Permittee shall install and maintain additional groundwater monitoring wells as necessary to assess changes in the rate and extent of any plume of contamination or as otherwise deemed necessary to maintain compliance with ADEM Admin. Code 335-13.
4. Prior to installing any additional groundwater monitoring wells, the Permittee shall submit a plan to the Department with a permit modification request specifying the design, location and installation of any additional monitoring wells. This plan shall be submitted at least 120 days prior to the installation which, at a minimum, shall include.
 - a. Well construction techniques including proposed casing depths, proposed total depth, and proposed screened interval of well(s);

- b. Well development method(s);
 - c. A complete analysis of well construction materials;
 - d. A schedule of implementation for construction; and
 - e. Provisions for determining the lithologic characteristics, hydraulic conductivity and grain-size distribution for the applicable aquifer unit(s) at the location of the new well(s).
5. The Permittee is approved to use an inter-well approach for statistical analysis.

B. Groundwater Monitoring Requirements

- 1. The Permittee shall determine the groundwater surface elevation at each monitoring well and piezometer identified in Table IV.1. each time the well or piezometer is sampled and at least semi-annually throughout the active life and post-closure care period.
- 2. The Permittee shall determine the groundwater flow rate and direction in the first zone of saturation at least annually or each time groundwater is sampled and submit as required by ADEM Admin. Code 335-13.
- 3. Prior to the initial receipt of waste at the facility, the Permittee shall sample, and analyze for the parameters listed in Appendix I of ADEM Admin. Code r. 335-13-4-.27, and/or any other parameters specified by the Department in Table IV. 2., all monitoring wells identified in Section IV.,A.,2. to establish background water quality and/or as directed by ADEM Admin. Code r. 335-13-4-.27(2)(j) and ADEM Admin. Code r. 335-13-4-.27(2)(a)(1).
- 4. The Permittee shall sample, and analyze all monitoring wells identified in Table IV.1 for the parameters listed in Appendix I of ADEM Admin. Code r. 335-13-4-.27(3), and/or any other parameters specified by the Department in Table IV.3, on a semi-annual basis throughout the active life of the facility and the post-closure care period in accordance with ADEM Admin. Code r. 335-13-4-.27(3). Sampling shall be conducted during March and September of each year, beginning with the effective date of this permit. The records and results of this sampling and analysis activity shall be submitted to the Department, within ninety (90) days of the date of sampling. Groundwater monitoring shall be conducted according to the groundwater monitoring plan submitted January 12, 2021.
- 5. In addition to the requirements of Section IV., B.,1., B.,2., B.,3. and B.,4., the Permittee shall record water levels, mean sea level elevation measuring point, depth to water, and the results of field tests for pH and specific conductance at the time of sampling for each well.

C. Sampling and Analysis Procedures

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

- 1. Samples shall be collected, preserved, and shipped (when shipped off-site for analysis) in accordance with the procedures specified in the Application.
- 2. Samples shall be analyzed according to the procedures specified of the Application, Standard Methods for the Examination of Water and Wastewater (American Public Health Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), or other appropriate methods approved by this Department. All field tests must be conducted using approved EPA test kits and procedures.

3. Samples shall be tracked and controlled using the chain-of-custody and QA/QC procedures specified of the Application.

D. Recordkeeping and Reporting Requirements

1. Recording of Results

For each sample and/or measurement taken pursuant to the requirements of this permit, the Permittee shall record the information required by Section I.,E.,9.,c.

2. Recordkeeping

Records and results of all groundwater monitoring, sampling, and analysis activities conducted pursuant to the requirements of this permit shall be included in the operating record required by Section I.,I.,1.

E. Permit Modification

If at any time the Permittee or the Department determines that the groundwater monitoring system no longer satisfies the requirements of ADEM Admin. Code r. 335-13-4-.14 or Section IV.A. of this permit, the Permittee must, within 120 days, submit an application for a permit modification to make any necessary and/or appropriate changes to the system.

TABLE IV.1. GROUNDWATER MONITORING WELLS.		
Monitoring Well Number	Top of Casing (feet msl)	Monitoring Part
UPGRADIENT/BACKGROUND MONITORING WELLS		
MW-7	49.26	Entire Landfill
DOWNGRADIENT MONITORING WELLS		
MW-1	38.28	Entire Landfill
MW-2	46.17	Entire Landfill
MW-4	47.30	Entire Landfill
MW-6	47.60	Entire Landfill
*ft-bls = Depth in feet below land surface		

TABLE IV.2.
BACKGROUND GROUNDWATER MONITORING

NOTE: The parameters in this Table are those listed in Appendix I of ADEM Admin. Code r. 335-13-4. At which time the facility accepts CCR waste, sampling for Appendix III parameters shall begin.

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

TABLE IV.3.
SEMI-ANNUAL GROUNDWATER MONITORING PARAMETERS

NOTE: The parameters to be monitored for in this Table are those listed in Appendix I of ADEM Admin. Code r. 335-13-4, and/or any other waste stream specific parameters. At which time the facility accepts CCR waste, sampling for Appendix III parameters shall begin.

SECTION V. GAS MONITORING REQUIREMENTS

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

SECTION VI. MUNICIPAL SOLID WASTE LANDFILL AIR EMISSIONS

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

SECTION VII. LEACHATE AND SURFACE WATER MANAGEMENT REQUIREMENTS.

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

The Permittee shall install a leachate collection system designed to maintain less than 12-inch depth of leachate over the liner in the new expansion area, Phase II. Each cell shall be designed to collect leachate using a 6" HDPE perforated collection line and sump as described in the Application. Leachate collected in Phase II will be pumped and transferred through the force main to the existing leachate manhole associated with existing Phase I-Cell 8. From there, the leachate will be pumped off-site to a wastewater treatment plant. The Permittee shall construct, operate and maintain a 250,000 gallon leachate storage tank as described in the Application, received April 10, 2024. Upon building future cells or phases, a new leachate generation estimate shall be prepared, and tanks built to handle any new additional leachate capacity.

SECTION VIII. CLOSURE AND POST-CLOSURE REQUIREMENTS.

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

A. Final Cover

The 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 consist of, from bottom up, a 12" compacted clay layer with a permeability less than or equal to 1×10^{-5} cm/sec, a 40 mil LDPE liner, a double-sided geocomposite drainage net, an 18" drainage layer, and a 6" erosion layer of soil cover capable of supporting vegetative cover. The Permittee shall grade the final slopes to a 3 to 1 ratio. (See Section X.8.) The Permittee shall place diversion berms on the closure cap to control stormwater runoff after closure as specified in the Application. (See Section X.9.)

B. Vegetative Cover

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

C. Notice of Intent

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

D. Completion of Closure Activities

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

E. Certification of Closure

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

F. Post-Closure Care Period

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

G. Post-Closure Maintenance

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

H. Post-Closure Use of Property

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

I. Certification of Post-Closure

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

J. Recording Instrument

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

1. Record a notation onto the land deed within 90 days from the certification of closure. This notation shall state that the land has been used as a solid waste disposal facility, the name of the Permittee, type

of disposal activity, location of the disposal facility and beginning and closure dates of the disposal activity.

2. File the covenant at the courthouse where the land deed is held, 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 the Department within 120 days after permit expiration, revocation, or as directed by the Department as described in the Application.

K. Removal of Waste

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

SECTION IX. FINANCIAL ASSURANCE

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

SECTION X. VARIANCES AND SPECIAL CONDITIONS.

1. The Permittee is granted a variance from ADEM Admin. Code r. 335-13-4-.22(1)(b) allowing the operation of an additional working face at the Axis Industrial Landfill. Due to the differentiation in liner systems in each phase, one working face will be allowed in Phase I for industrial disposal operations and a second working face will be allowed in Phase II for MSW disposal operations,. (See Section III.J.)
2. The Permittee is granted a variance from ADEM Admin. Code r. 335-13-4-.12(2)(f) requiring a 100 foot buffer zone along the Northwest corner and the Southeast corner of Phase I disposal area.

3. The Permittee is granted permission to stage solidification operations within the Phase II permitted footprint. Solidification operations will take place on a lined containment pad, surrounded by a berm as described in the Application submitted September 29, 2020.
4. The Permittee is granted permission to use autofluff as an alternative cover material on interior slopes. A minimum of six inches of autofluff shall be applied as cover. The alternate cover material should be mixed with sand or other soils in the ratio of 50% soil: 50% autofluff. The Permittee shall cover Phase I at the end of the last full week of each month's activities with earthen material and Phase II at the end of each week's activities with earthen material. All exterior slopes shall be covered with soil in accordance with approved plans and the permit. (See Section III.H.)
5. The Permittee is granted permission to use Residual Short Fiber (RSF) as an alternative cover material on interior slopes. The alternate cover material should be mixed with sand or other soils in the ratio of 50% soil: 50% RSF. A minimum of six inches of the soil and RSF mixture shall be applied as cover. The Permittee shall cover Phase I at the end of the last full week of each month's activities with earthen material and Phase II at the end of each week's activities with earthen material. All exterior slopes shall be covered with soil in accordance with approved plans and the permit. (See Section III.H.)
6. The Permittee is granted a variance from ADEM Admin. Code r. 335-13-4-.22(1)(b) and ADEM Admin. Code r. 335-13-4-.23(1)(c) defining working slopes not to exceed 4 to 1 (25%). The permittee is approved to operate working slopes of 3 to 1 (33%). (See Section III.J.)
7. The Permittee is granted a variance from ADEM Admin. Code r. 335-13-4.12(2)(f) requiring a 100 foot buffer zone for 215 feet along the southern boundary and 150 feet along the southeastern boundary of Cells 10 and 11 to accommodate the solidification pad.
8. The Permittee is granted a variance from ADEM Admin. Code r. 335-13-4-.20(2)(c)2. to allow for 3 to 1 final cover slopes. (See Section VIII.A.)
9. The Permittee is granted a variance from ADEM Admin. Code r. 335-13-4-.20(2)(c)3. to allow diversion berms to be placed on the closure cap. (See Section VIII.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.

Modification Application

April 10, 2024
File No. 09222175.03

Mr. Jared Kelly, Chief
Solid Waste Branch
Land Division
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, AL 36110-2059

Subject: Application for a Minor Permit Modification
Axis Landfill
ADEM Permit No. 49-21
Mobile County, Alabama

Dear Mr. Kelly,

On behalf of EcoSouth Services, LLC (EcoSouth), SCS Engineers (SCS) is pleased to provide this updated minor permit modification application package, which replaces the previous submittal dated October 30, 2023 requesting to modify Axis Landfill's Solid Waste Facility Disposal Permit (Permit No. 49-21). The proposed modification request is in accordance with Admin. Code r. 335-13-5-.06(2)(c) and primarily entails installing a new leachate storage tank to replace existing frac tanks, and the construction of a replacement leachate force main. The proposed project scope includes:

- Constructing a 250,000 gallon leachate storage tank with a secondary containment capacity of 110% of the tank volume.
- Constructing a concrete truck loading pad with a sump to contain any leakage that may occur during filling of the leachate trucks.
- Removing the existing frac tanks following construction and placing in service the new leachate storage tank.
- Constructing a replacement force main from the existing lift station on the west side of Phase 1.
- Extending the existing 4" force main with 6" containment pipe along the access road on the north side of Phase I to the proposed leachate tank location through the replacement 6" force main inside an 8" containment pipe.
- Providing cleanout access spaced at approximately 800 feet to clean the replacement force main.
- Upgrading the existing dual pumps in the existing lift station to 5 HP.

This minor permit modification has been requested to accommodate needed upgrades of existing site infrastructure and implement routine maintenance activities needed to further safeguard human health and the environment. The proposed modification is similar to other modifications listed in ADEM Admin. Code 335-13-5-.06(2)(a), keeps the permit current with routine changes to the facility and operation, and does not substantially alter current permit conditions.



Mr. Jared Kelly, Chief
April 10, 2024
Page 2

Attached please find the completed ADEM solid waste application Form 439 and the design drawings for the proposed project.

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

Sincerely,



Kevin Frinak
Project Professional
SCS Engineers



Abdul Mulla-Saleh, Ph.D, P.E.
Project Director
SCS Engineers

Attachments: Permit
Drawings, Adjacent
Landowner List

SOLID WASTE APPLICATION

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

1. Facility type: X Municipal Solid Waste Landfill (MSWLF)
 X Industrial Landfill (ILF)
 _____ Construction and Demolition Landfill (C/DLF)
 _____ CCR Landfill (CCRLF)
 _____ CCR Surface Impoundment (CCRSI)
 X Other (explain) Construction and Demolition (C&D)

2. Facility Name Axis Industrial Landfill

3. Applicant/Permittee:

Name: EcoSouth Services of Mobile, LLC

Address: 12945 Highway 43 N, Axis, AL 36505

Telephone: (251) 675-9800

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

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

Township 1 South Range 1 East
Section 1 and 18 County Mobile

5. Land Owner:

Name: EcoSouth Services of Mobile, LLC

Address: 12945 Highway 43 N, Axis, AL 36505

Telephone: (251) 675-9800

(Attach copy of agreement from landowner if applicable.)

Solid Waste Permit Application
Page 2

6. Contact Person:

Name Tony Bishop

Position or Affiliation Vice President of Post Collections

Address: 2010 West I-65 Service Road S, Suite C, Mobile, AL 36693

Telephone: (251) 277-4743

7. Size of Facility:

70.3 Acres

Size of Disposal Area(s):

44.3 Acres

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

Alabama - Baldwin, Clark, Conecuh, Covington, Dale, Escambia, Houston, Mobile, Monroe, and Washington Counties

Florida - Escambia, Okaloosa, Bay, Santa Rosa, and Walton Counties

Mississippi - Jackson, Harrison, and Hancock Counties

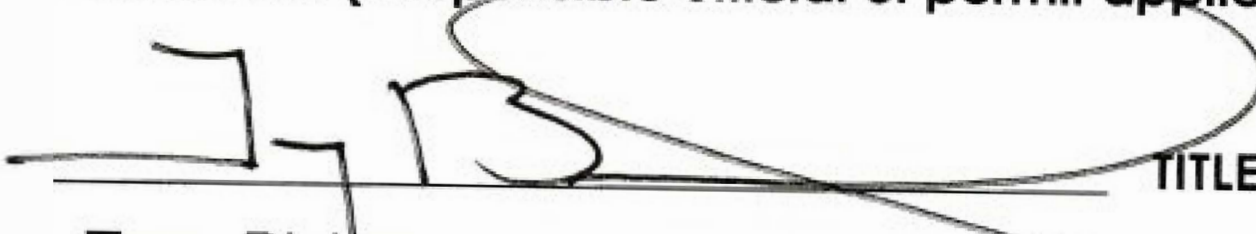
9. Proposed maximum average daily volume to be received at landfill (choose one):

5,000 Tons/Day _____ Cubic Yards/Day

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

In Phase I (Cells 1-8) non-putrescible and non-hazardous construction and demolition waste, rubbish, and industrial waste streams approved by the Department; including approved wastewater sludges, total petroleum hydrocarbons, and automobile fluff. In Phase II (Cells 9-12) non-hazardous, non-infectious putrescible and non-putrescible wastes including but not limited to municipal solid waste, construction and demolition waste, rubbish, commercial waste, and industrial waste streams approved by the Department; including approved wastewater sludges, total petroleum hydrocarbons, and automobile fluff.

SIGNATURE (Responsible official of permit applicant):



TITLE: V.P Post Collection

Tony Bishop

DATE: 6/21/2023

(please print or type name)

ECOSOUTH SERVICES, LLC

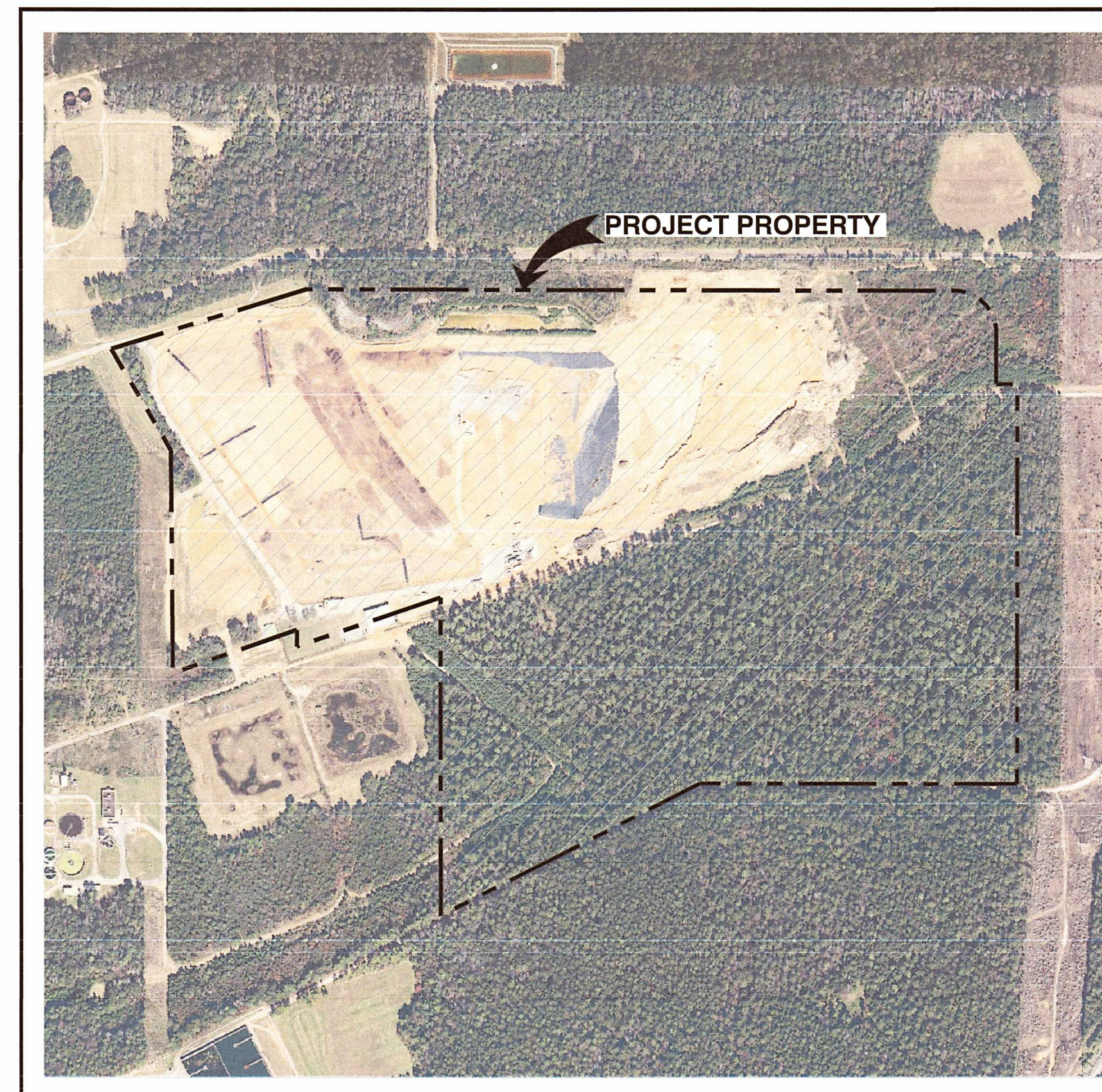
AXIS INDUSTRIAL LANDFILL

FORCE MAIN AND LEACHATE STORAGE TANK

AXIS, ALABAMA
AUGUST 2023



PREPARED FOR:
ECOSOUTH SERVICES, LLC
AXIS LANDFILL
12945 HIGHWAY 43 N
AXIS, ALABAMA 36505



LOCATION MAP
NOT TO SCALE

INDEX OF DRAWINGS

SHEET	SHEET TITLE
01	COVER
02	EXISTING CONDITIONS
03	PROPOSED SITE PLAN
04	PROPOSED LEACHATE STORAGE TANK

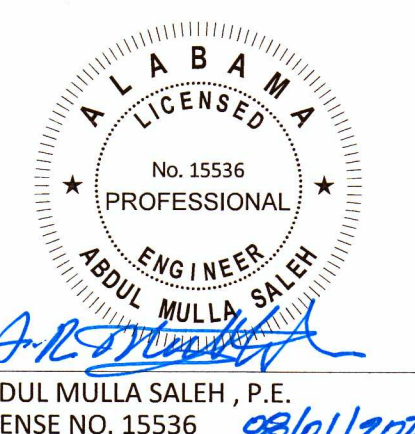
Always call 811 two full business days before you dig



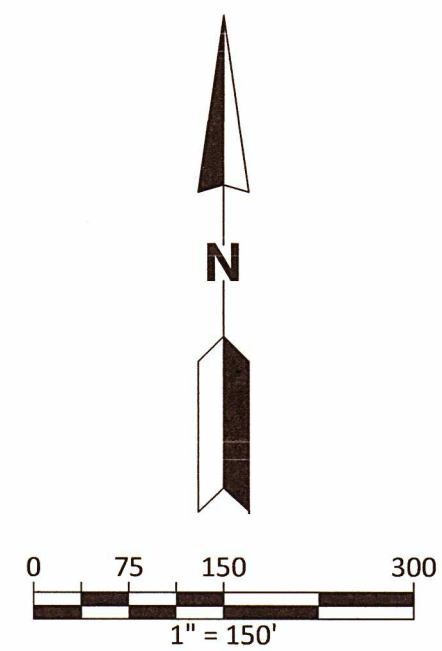
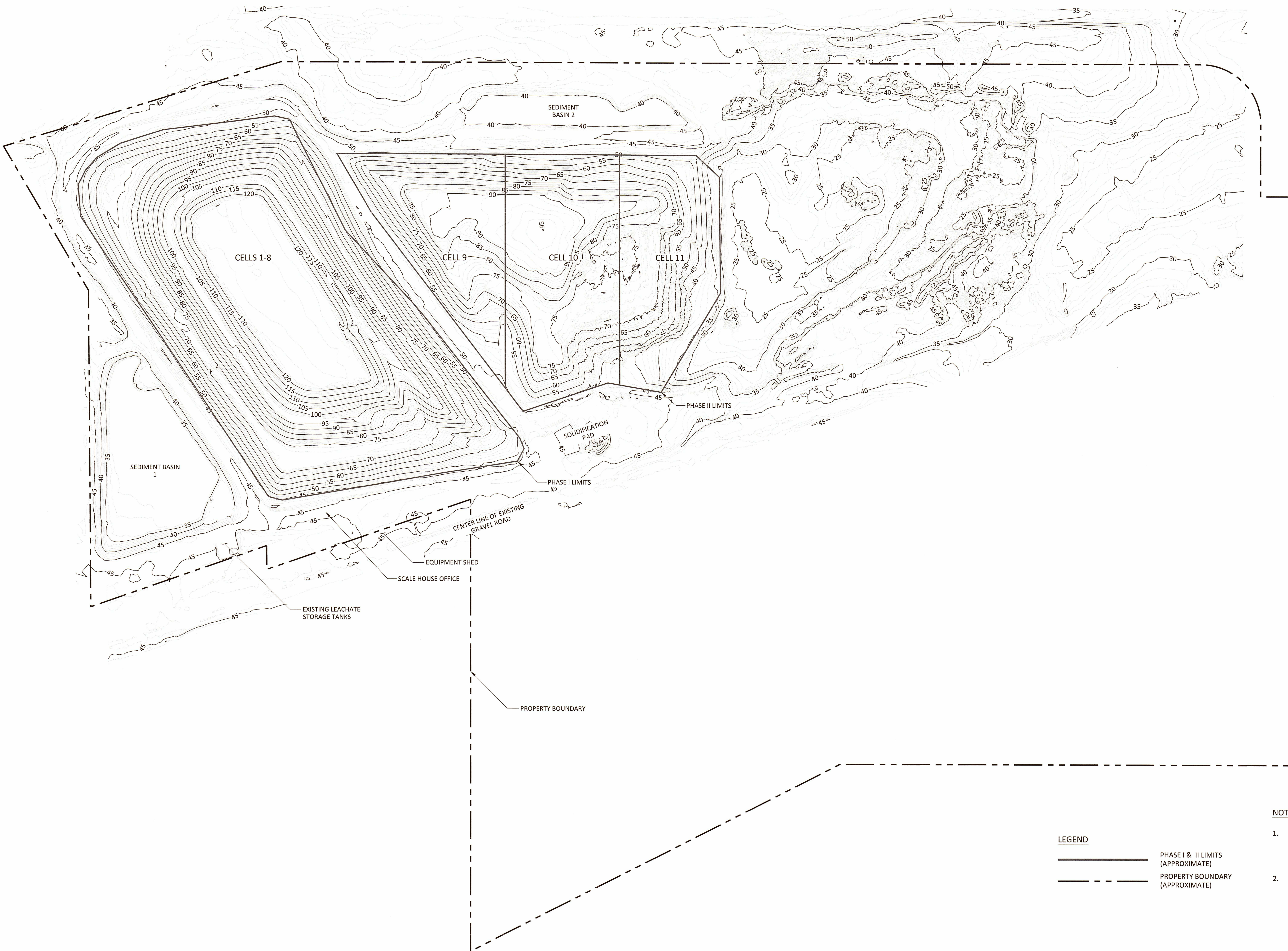
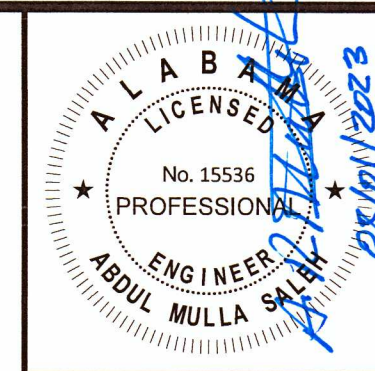
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
1 SAINT LOUIS STREET, SUITE 1001
MOBILE, ALABAMA 36602
PH. (251) 283-6444 FAX. (813) 623-6757
FIRM REGISTRATION RY 4892
WWW.SCSENGINEERS.COM
SCS PROJECT NO. 09222175.03

PERMIT DRAWINGS

08/01/2023



ABDUL MULLA SALEH, P.E.
LICENSE NO. 15536 08/01/2023



CHK. BY	DESCRIPTION	DATE	REV

SHEET TITLE
EXISTING CONDITIONS

PROJECT TITLE
AXIS INDUSTRIAL LANDFILL FORCE MAIN AND LEACHATE STORAGE TANK

CLIENT
AXIS INDUSTRIAL LANDFILL
12945 HIGHWAY 43 N AXIS,
AL 36505

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3923 COCONUT PALM DRIVE, SUITE 103, TAMPA, FL 33619
PH (813) 821-0080 FAX NO. (813) 823-6757
FLORIDA FIRM REGISTRATION RY-4882

DATE: 08/22/23
DRAWN BY: TLR
CHECKED BY: RBC
APP. BY: AFV
RBC

LEGEND

—— PHASE I & II LIMITS (APPROXIMATE)

- - - - PROPERTY BOUNDARY (APPROXIMATE)

- NOTES:**
- EXISTING CONDITIONS PROVIDED ARE BASED ON A TOPOGRAPHIC SURVEY BY ROWE ENGINEERING & SURVEYING CONSULTING ENGINEERS, DATE OF SURVEY 01/18/2023.
 - PHASE AND CELL BOUNDARIES ARE APPROXIMATE AND ARE BASED ON THE APPROVED PERMIT DRAWINGS PREPARED BY LABELLA ASSOCIATES DATED MARCH 2022, REVISED AUGUST 2022.

PERMIT DRAWINGS

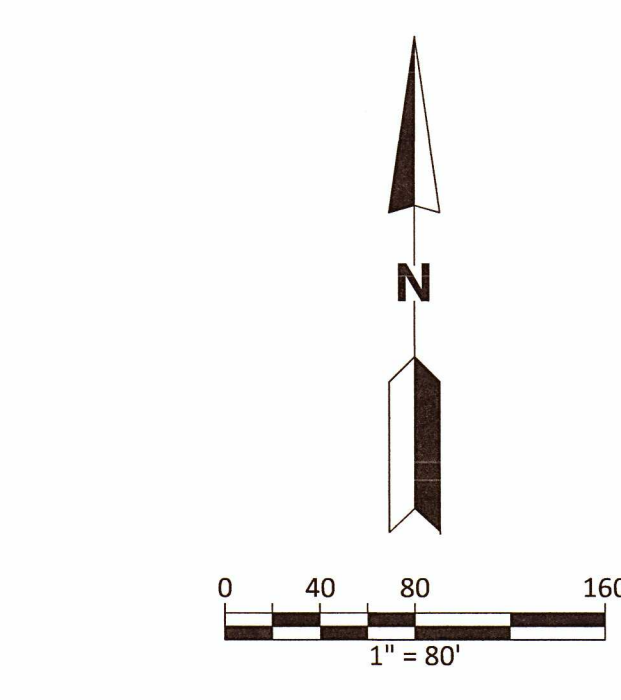
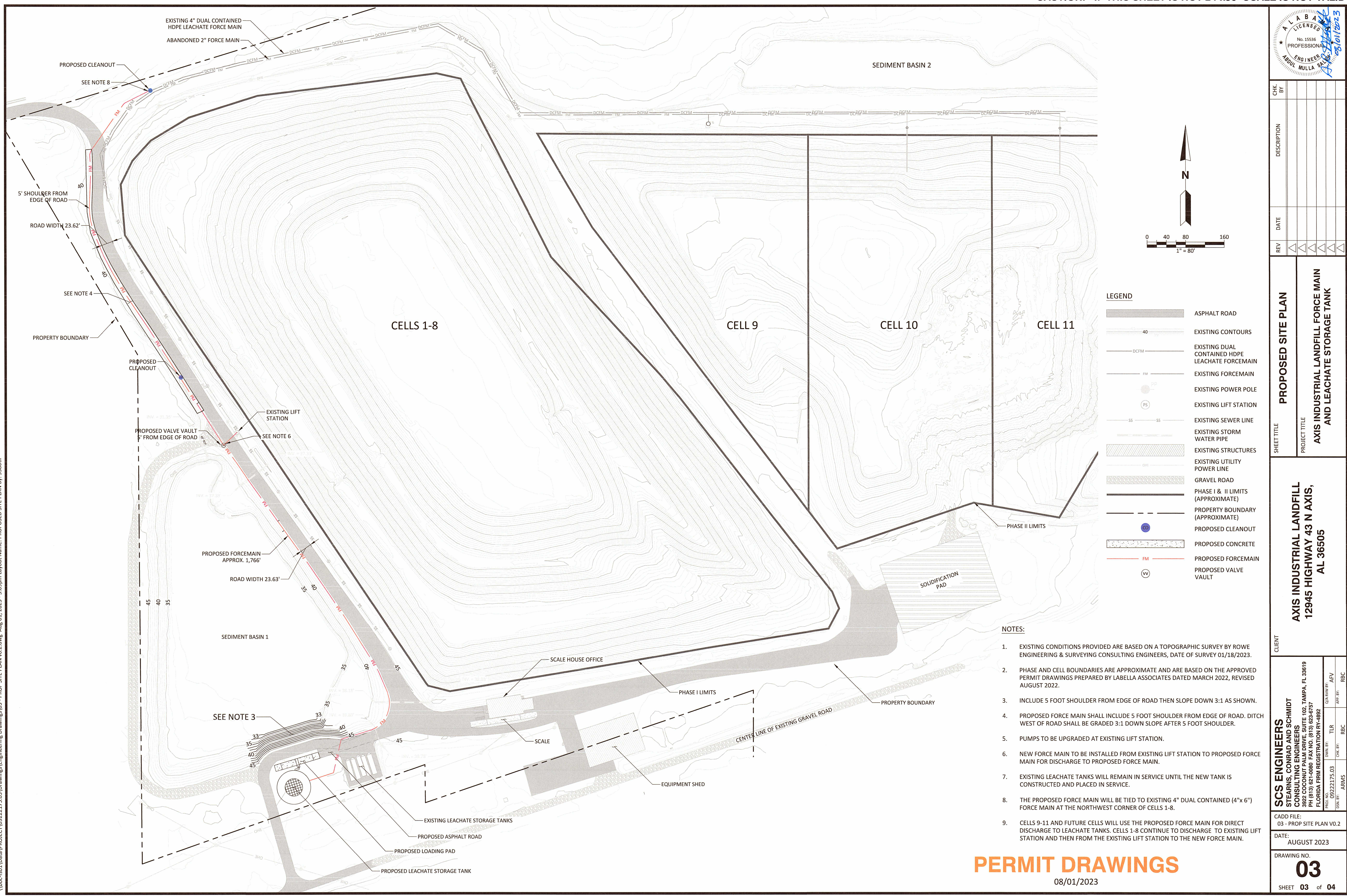
08/01/2023

CADD FILE:
02 - EXISTING CONDITIONS

DATE:
AUGUST 2023

DRAWING NO.
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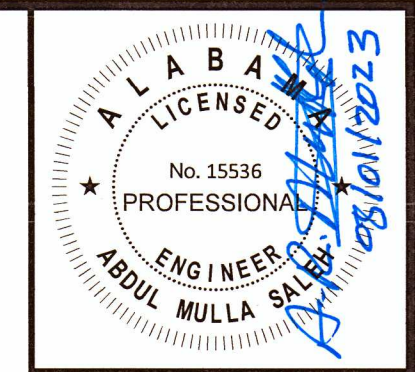
SHEET 02 of 04



LEGEND

	ASPHALT ROAD
	EXISTING CONTOURS
	EXISTING DUAL CONTAINED HDPE LEACHATE FORCE MAIN
	EXISTING FORCE MAIN
	EXISTING POWER POLE
	EXISTING LIFT STATION
	EXISTING SEWER LINE
	EXISTING STORM WATER PIPE
	EXISTING STRUCTURES
	EXISTING UTILITY POWER LINE
	GRAVEL ROAD
	PHASE I & II LIMITS (APPROXIMATE)
	PROPERTY BOUNDARY (APPROXIMATE)
	PROPOSED CLEANOUT
	PROPOSED CONCRETE
	PROPOSED FORCE MAIN
	PROPOSED VALVE VAULT

- NOTES:**
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 - INCLUDE 5 FOOT SHOULDER FROM EDGE OF ROAD THEN SLOPE DOWN 3:1 AS SHOWN.
 - PROPOSED FORCE MAIN SHALL INCLUDE 5 FOOT SHOULDER FROM EDGE OF ROAD. DITCH WEST OF ROAD SHALL BE GRADED 3:1 DOWN SLOPE AFTER 5 FOOT SHOULDER.
 - PUMPS TO BE UPGRADED AT EXISTING LIFT STATION.
 - NEW FORCE MAIN TO BE INSTALLED FROM EXISTING LIFT STATION TO PROPOSED FORCE MAIN FOR DISCHARGE TO PROPOSED FORCE MAIN.
 - EXISTING LEACHATE TANKS WILL REMAIN IN SERVICE UNTIL THE NEW TANK IS CONSTRUCTED AND PLACED IN SERVICE.
 - THE PROPOSED FORCE MAIN WILL BE TIED TO EXISTING 4" DUAL CONTAINED (4"x6") FORCE MAIN AT THE NORTHWEST CORNER OF CELLS 1-8.
 - CELLS 9-11 AND FUTURE CELLS WILL USE THE PROPOSED FORCE MAIN FOR DIRECT DISCHARGE TO LEACHATE TANKS. CELLS 1-8 CONTINUE TO DISCHARGE TO EXISTING LIFT STATION AND THEN FROM THE EXISTING LIFT STATION TO THE NEW FORCE MAIN.



CHK. BY	DESCRIPTION	DATE	REV

SHEET TITLE
PROPOSED SITE PLAN

PROJECT TITLE
AXIS INDUSTRIAL LANDFILL FORCE MAIN AND LEACHATE STORAGE TANK

CLIENT
AXIS INDUSTRIAL LANDFILL
12945 HIGHWAY 43 N AXIS,
AL 36505

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 3822 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619
 PH (813) 661-0080 FAX NO. (813) 623-6757
 FLORIDA FIRM REGISTRATION RY-4892

CADD FILE:
 03 - PROP SITE PLAN V0.2

DATE:
 AUGUST 2023

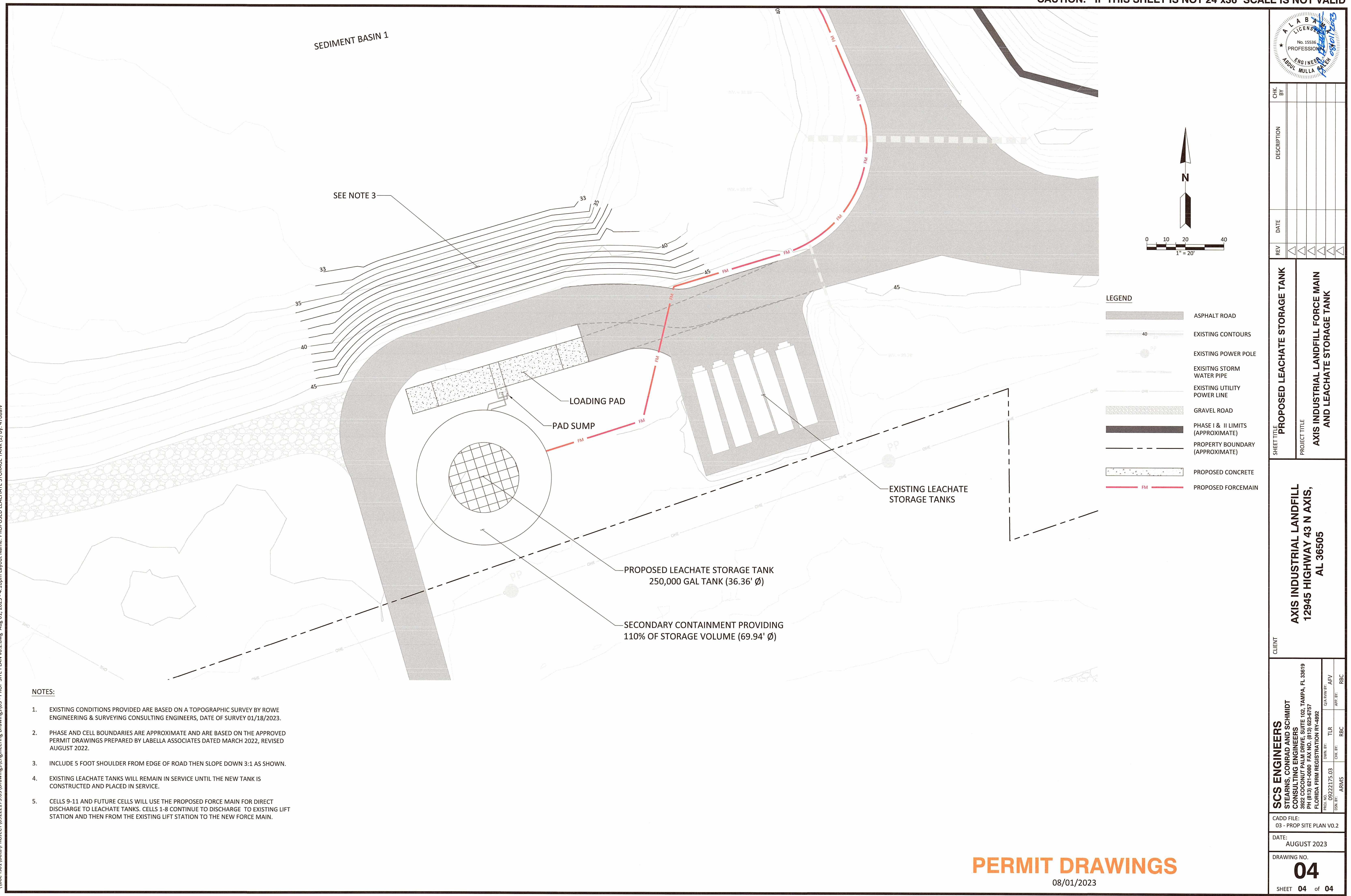
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SHEET **03** of **04**

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APP BY:	REC
TLR	REC
ARM	REC

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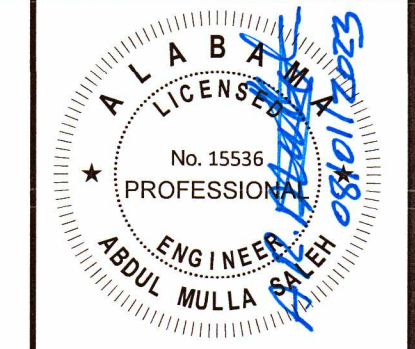
PERMIT DRAWINGS
 08/01/2023



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NOTES:

- EXISTING CONDITIONS PROVIDED ARE BASED ON A TOPOGRAPHIC SURVEY BY ROWE ENGINEERING & SURVEYING CONSULTING ENGINEERS, DATE OF SURVEY 01/18/2023.
- PHASE AND CELL BOUNDARIES ARE APPROXIMATE AND ARE BASED ON THE APPROVED PERMIT DRAWINGS PREPARED BY LABELLA ASSOCIATES DATED MARCH 2022, REVISED AUGUST 2022.
- INCLUDE 5 FOOT SHOULDER FROM EDGE OF ROAD THEN SLOPE DOWN 3:1 AS SHOWN.
- EXISTING LEACHATE TANKS WILL REMAIN IN SERVICE UNTIL THE NEW TANK IS CONSTRUCTED AND PLACED IN SERVICE.
- CELLS 9-11 AND FUTURE CELLS WILL USE THE PROPOSED FORCE MAIN FOR DIRECT DISCHARGE TO LEACHATE TANKS. CELLS 1-8 CONTINUE TO DISCHARGE TO EXISTING LIFT STATION AND THEN FROM THE EXISTING LIFT STATION TO THE NEW FORCE MAIN.



CHK BY	DESCRIPTION	DATE	REV

SHEET TITLE	PROPOSED LEACHATE STORAGE TANK
PROJECT TITLE	AXIS INDUSTRIAL LANDFILL FORCE MAIN AND LEACHATE STORAGE TANK

CLIENT
AXIS INDUSTRIAL LANDFILL
 12945 HIGHWAY 43 N AXIS,
 AL 36505

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619
 PH (813) 624-0880 FAX (813) 624-9757
 FLORIDA FIRM REGISTRATION #14882

DATE: 08/22/2023
 DRAWN BY: TLR
 CHECKED BY: ARMS
 IN CHARGE BY: ARV
 APPROVED BY: RBC

CADD FILE:
 03 - PROP SITE PLAN V0.2

DATE:
 AUGUST 2023

DRAWING NO.
04

SHEET **04** of **04**

PERMIT DRAWINGS

08/01/2023

AXIS LANDFILL

ID	PROPERTY OWNER	ADDRESS	PARCEL NUMBER
A	AXIS ENVIRONMENTAL LLC	2010 W I65 SERVICE RD S STE C, MOBILE, AL 36693-5211	1104180000002007
B	AXIS ENVIRONMENTAL LLC	2010 W I65 SERVICE RD S STE C, MOBILE, AL 36693-5211	1104010000003003
C	ECOSOUTH SERVICES OF MOBILE LLC	2010 W I65 SERVICE RD S STE C, MOBILE, AL 36693-5211	1104010000003004
D	ECOSOUTH SERVICES OF MOBILE LLC	12945 HIGHWAY 43 N, AXIS, AL 36505-4325	1104010000003005
E	ECOSOUTH SERVICES OF MOBILE LLC	12945 HIGHWAY 43 N, AXIS, AL 36505-4325	1104180000002010

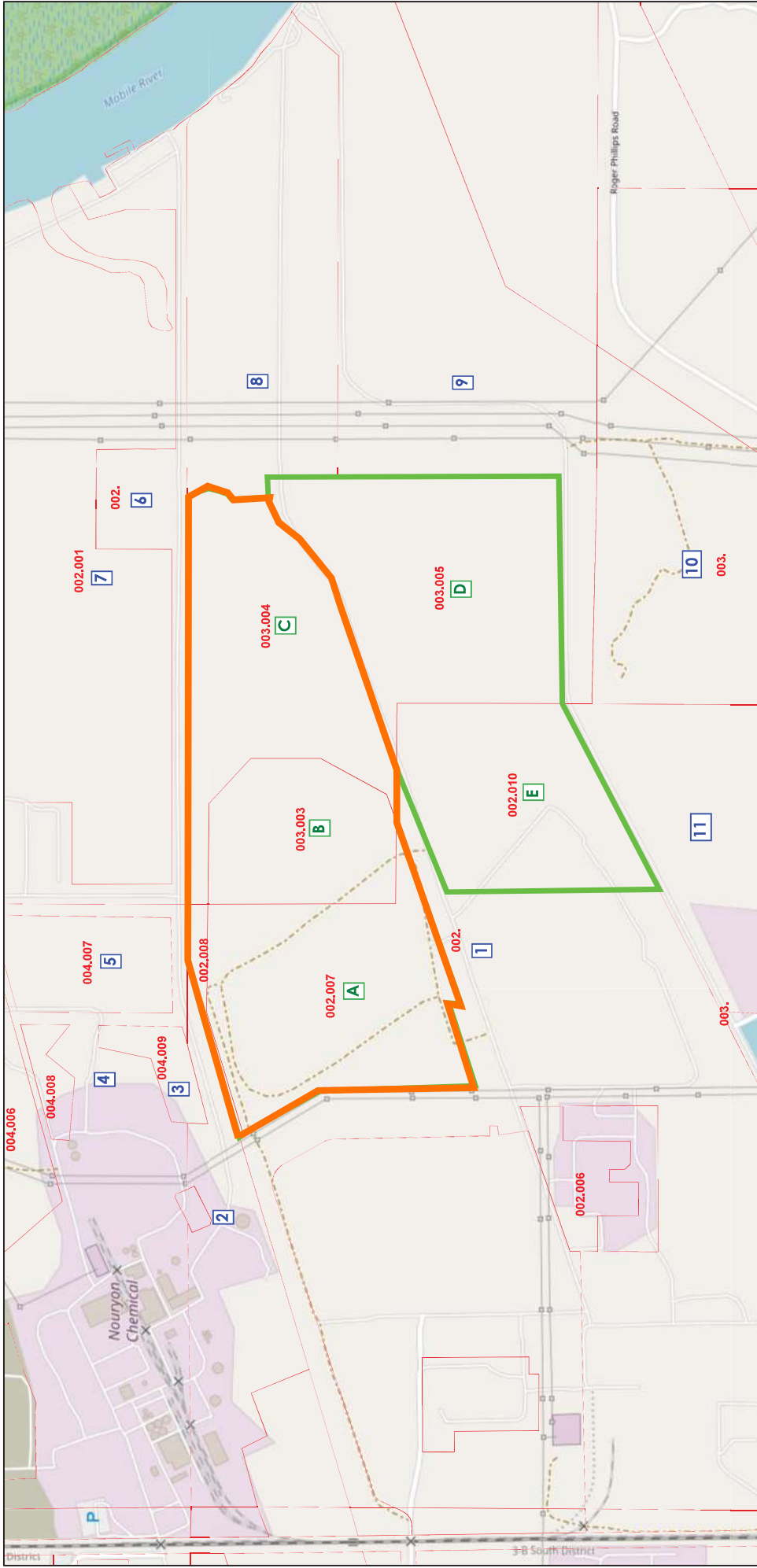
AXIS LANDFILL - ADJACENT LANDOWNERS

ID	PROPERTY OWNER	ADDRESS	PARCEL NUMBER
1	MOBILE COUNTY	209 GOVERNMENT ST, MOBILE, AL 36602	1104180000002.000
2	AKZO INC	13440 HWY 43, AXIS, AL 36505-4313	1104180000001.000
3	AKZO INC	13440 HWY 43, AXIS, AL 36505,4313	1102070000004009
4	AKZO INC	13440 HWY 43, AXIS, AL 36505-4313	1102070000004005
5	AKZO INC	13440 HWY 43, AXIS, AL 36505-4313	1102070000004007
6	AKZO INC	13440 HWY 43, AXIS, AL 36505-4313	1104010000002.000
7	AKZO INC	13440 HWY 43, AXIS, AL 36505-4313	1104010000002001
8	MOBILE COUNTY	209 GOVERNMENT ST, MOBILE, AL 36602	1104010000003.000
9	FMC CORPORATION	2929 WALNUT ST, PHILADELPHIA, PA 19104-5054	1104010000004.000
10	FMC CORPORATION	2929 WALNUT ST, PHILADELPHIA, PA 19104-5054	1104170000003.000
11	FMC CORPORATION	2929 WALNUT ST, PHILADELPHIA, PA 19104-5054	1104180000003001



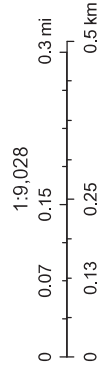
MAP OF ADJACENT OWNERS
(MOBILE COUNTY INTERACTIVE TAX MAP)

Mobile County Interactive Tax Map



10/20/2023, 10:56:34 AM

- Parcels
- Mobile County
- EcoSouth Property
- Axis Landfill
- A EcoSouth Parcel
- 1 Adjacent Property



Map data © OpenStreetMap contributors, CC-BY-SA

Disclaimer: This product is for informational purposes only and has not been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of boundaries.

Mobile County Revenue Commission, BIS Consulting -