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March 4, 2026

Mr. Chastin Reed  
Managing Member  
Reed Materials, LLC  
1039 Bean Rock Road  
Union Grove, AL 35175

RE: Revised Draft Permit  
Project New Road  
NPDES Permit Number AL0084532  
Marshall County (095)

Dear Mr. Reed:

Transmitted herein is a draft of the above referenced permit. Please review the enclosed draft permit carefully. If previously permitted, the draft may contain additions/revisions to the language in your current permit. Please submit any comments on the draft permit to the Department within 30 days from the date of receipt of this letter.

Since the Department has made a tentative decision to issue the above referenced permit, ADEM Admin. Code r. 335-6-6-.21 requires a public notice of the draft permit followed by a period of at least 30 days for public comment before the permit can be issued. The United States Environmental Protection Agency will also receive the draft permit for review during the 30-day public comment period.

Any mining, processing, construction, land disturbance, or other regulated activity proposed to be authorized by this draft permit is prohibited prior to the effective date of the formal permit. Any mining or processing activity within the drainage basin associated with each permitted outfall which is conducted prior to Departmental receipt of certification from a professional engineer licensed to practice in the State of Alabama, that the Pollution Abatement/Prevention Plan was implemented according to the design plan, or notification from the Alabama Surface Mining Commission that the sediment control structures have been certified, is prohibited.

This permit requires Discharge Monitoring Reports (DMR) to be submitted utilizing the Department's web-based electronic reporting system. Please read Part I.D of the permit carefully and visit <https://aepacs.adem.alabama.gov/nviro/ncore/external/home>.

Should you have any questions concerning this matter, please contact Robert Glover at (334) 271-7975 or [robert.glover@adem.alabama.gov](mailto:robert.glover@adem.alabama.gov).

Sincerely,

William D. McClimans, Chief  
Mining and Natural Resource Section  
Stormwater Management Branch  
Water Division

WDM/rlg File: DPER/62706

cc: Robert Glover, ADEM  
Environmental Protection Agency Region IV  
Alabama Department of Conservation and Natural Resources  
U.S. Fish and Wildlife Service  
Alabama Historical Commission  
Advisory Council on Historic Preservation  
U.S. Army Corps of Engineers Mobile District  
U.S. Army Corps of Engineers Nashville District  
Alabama Department of Labor



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

**Decatur Office**  
2715 Sandlin Road, S.W.  
Decatur, AL 35603-1333  
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(256) 340-9359 (FAX)

**Coastal Office**  
1615 South Broad Street  
Mobile, AL 36605  
(251) 450-3400  
(251) 479-2593 (FAX)



# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: Reed Materials, LLC  
1039 Bean Rock Road  
Union Grove, AL 35175

FACILITY LOCATION: Project New Road  
7442 Warrenton Road  
Guntersville, AL 35976  
Marshall County  
T9S, R2E, Section 3 and 10

PERMIT NUMBER: AL0084532

<u>DSN</u>	<u>RECEIVING STREAM</u>
001 - 1	Unnamed Tributary to Browns Creek
002 - 1	Unnamed Tributary to Browns Creek
003 - 1	Unnamed Tributary to Shiloh Branch

*In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1388 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-17, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.*

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

## Draft

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Alabama Department of Environmental Management  
Water Division Chief

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT**

**Limestone Quarry, Wet and Dry Preparation Plant, Transportation and Storage, and  
Associated Areas**

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## PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

### A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this Permit and lasting through the expiration date of this Permit, the Permittee is authorized to discharge from each point source identified on Page 1 of this Permit and described more fully in the Permittee's application, if the outfalls have been constructed and certified. Discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations			Monitoring Requirements	
	Daily Minimum	Monthly Average	Daily Maximum	Sample Type	Measurement Frequency <sup>1</sup>
pH 00400	6.0 s.u.	-----	8.5 s.u.	Grab	2/Month
Solids, Total Suspended 00530	-----	25.0 mg/L	45.0 mg/L	Grab	2/Month
Nitrogen, Kjeldahl Total (as N) <sup>2</sup> 00625	-----	Report mg/L	Report mg/L	Grab	1/Month
Nitrite Plus Nitrate Total 1 Det. (as N) <sup>2</sup> 00630	-----	Report mg/L	Report mg/L	Grab	1/Month
Phosphorus, Total (as P) <sup>2</sup> 00665	-----	Report mg/L	Report mg/L	Grab	1/Month
Flow, In Conduit or Thru Treatment Planta <sup>3</sup> 50050	-----	Report MGD	Report MGD	Instantaneous	2/Month

### B. REQUIREMENTS TO ACTIVATE A PROPOSED MINING OUTFALL

1. Discharge from any point source identified on Page 1 of this Permit which is a proposed outfall is not authorized by this Permit until the outfall has been constructed and certification received by the Department from a professional engineer, registered in the State of Alabama, certifying that such facility has been constructed according to good engineering practices and in accordance with the Pollution Abatement and/or Prevention (PAP) Plan.
2. Certification required by Part I.B.1. shall be submitted on a completed ADEM Form 432. The certification shall include the latitude and longitude of the constructed and certified outfall.
3. Discharge monitoring and Discharge Monitoring Report (DMR) reporting requirements described in Part I.C. of this Permit do not apply to point sources that have not been constructed and certified.
4. Upon submittal of the certification required by Part I.B.1. to the Department, all monitoring and DMR submittal requirements shall apply to the constructed and certified outfall.

### C. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

<sup>1</sup> See Part I.C.2. for further measurement frequency requirements.

<sup>2</sup> Monitoring for Total Phosphorus (as P), Total Kjeldahl Nitrogen (as N), and Total Nitrite plus Nitrate (as N) is applicable only during the months of April, June, August, and October.

<sup>3</sup> Flow must be determined at the time of sample collection by direct measurement, calculation, or other method acceptable to the Department.

**1. Sampling Schedule and Frequency**

- a. The Permittee shall collect at least one grab sample of the discharge to surface waters from each constructed and certified point source identified on Page 1 of this Permit and described more fully in the Permittee's application twice per month at a rate of at least every other week if a discharge occurs at any time during the two week period, but need not collect more than two samples per calendar month. Each sample collected shall be analyzed for each parameter specified in Part I.A. of this Permit.
- b. If the final effluent is pumped in order to discharge (e.g. from incised ponds, old highwall cuts, old pit areas or depressions, etc.), the Permittee shall collect at least one grab sample of the discharge from each point source identified on Page 1 of this Permit and described more fully in the Permittee's application each quarterly (three month) monitoring period if a discharge occurs at any time during the quarterly monitoring period which results from direct pumped drainage. Each sample collected shall be analyzed for each parameter specified in Part I.A. of this Permit.
- c. The Permittee may increase the frequency of sampling listed in Parts I.C.1.a and I.C.1.b; however, all sampling results must be reported to the Department and included in any calculated results submitted to the Department in accordance with this Permit.

**2. Measurement Frequency**

Measurement frequency requirements found in Part I.A. shall mean:

- a. A measurement frequency of one day per week shall mean sample collection on any day of discharge which occurs every calendar week.
- b. A measurement frequency of two days per month shall mean sample collection on any day of discharge which occurs every other week, but need not exceed two sample days per month.
- c. A measurement frequency of one day per month shall mean sample collection on any day of discharge which occurs during each calendar month.
- d. A measurement frequency of one day per quarter shall mean sample collection on any day of discharge which occurs during each calendar quarter.
- e. A measurement frequency of one day per six months shall mean sample collection on any day of discharge which occurs during the period of January through June and during the period of July through December.
- f. A measurement frequency of one day per year shall mean sample collection on any day of discharge which occurs during each calendar year.

**3. Monitoring Schedule**

The Permittee shall conduct the monitoring required by Part I.A. in accordance with the following schedule:

- a. MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY shall be conducted during the first full month following the effective date of coverage under this Permit and every month thereafter. More frequently than monthly and monthly monitoring may be done anytime during the month, unless restricted elsewhere in

this Permit, but the results should be reported on the last Discharge Monitoring Report (DMR) due for the quarter (i.e., with the March, June, September, and December DMRs).

- b. QUARTERLY MONITORING shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The Permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this Permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring may be done anytime during the quarter, unless restricted elsewhere in this Permit, but the results should be reported on the last DMR due for the quarter (i.e., with the March, June, September, and December DMRs).
- c. SEMIANNUAL MONITORING shall be conducted at least once during the period of January through June and at least once during the period of July through December. The Permittee shall conduct the semiannual monitoring during the first complete semiannual calendar period following the effective date of this Permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this Permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e., with the June and December DMRs).
- d. ANNUAL MONITORING shall be conducted at least once during the period of January through December. The Permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this Permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this Permit, but it should be reported on the December DMR.

#### **4. Sampling Location**

Unless restricted elsewhere in this Permit, samples collected to comply with the monitoring requirements specified in Part I.A. shall be collected at the nearest accessible location just prior to discharge and after final treatment, or at an alternate location approved in writing by the Department.

#### **5. Representative Sampling**

Sample collection and measurement actions taken as required herein shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this Permit.

#### **6. Test Procedures**

For the purpose of reporting and compliance, Permittees shall use one of the following procedures:

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136, guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h), and ADEM Standard Operating Procedures. If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this Permit the Permittee shall use the newly approved method.

- b. For pollutant parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the Permittee during permit issuance, reissuance, modification, or during compliance schedule.

In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.

- c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit using the most sensitive EPA approved method. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

The Minimum Level utilized for procedures identified in Parts I.C.6.a. and b. shall be reported on the Permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

## **7. Recording of Results**

For each measurement or sample taken pursuant to the requirements of this Permit, the Permittee shall record the following information:

- a. The facility name and location, point source number, date, time, and exact place of sampling or measurements;
- b. The name(s) of person(s) who obtained the samples or measurements;
- c. The dates and times the analyses were performed;
- d. The name(s) of the person(s) who performed the analyses;
- e. The analytical techniques or methods used including source of method and method number; and
- f. The results of all required analyses.

## **8. Routine Inspection by Permittee**

- a. The Permittee shall inspect all point sources identified on Page 1 of this Permit and described more fully in the Permittee's application and all treatment or control facilities or systems used by the Permittee to achieve compliance with the terms and conditions of this Permit at least as often as the applicable sampling frequency specified in Part I.C.1 of this Permit.
- b. The Permittee shall maintain a written log for each point source identified on Page 1 of this Permit and described more fully in the Permittee's application in which the Permittee shall record the following information:

- (1) The date and time the point source and any associated treatment or control facilities or systems were inspected by the Permittee;
- (2) Whether there was a discharge from the point source at the time of inspection by the Permittee;
- (3) Whether a sample of the discharge from the point source was collected at the time of inspection by the Permittee;
- (4) Whether all associated treatment or control facilities or systems appeared to be in good working order and operating as efficiently as possible, and if not, a description of the problems or deficiencies; and
- (5) The name and signature of the person performing the inspection of the point source and associated treatment or control facilities or systems.

**9. Records Retention and Production**

- a. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Permit, and records of all data used to complete the above reports or the application for this Permit, for a period of at least three (3) years from the date of the sample collection, measurement, report, or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA, AEMA, and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director, the Permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records should not be submitted unless requested.
- b. All records required to be kept for a period of three (3) years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

**10. Monitoring Equipment and Instrumentation**

All equipment and instrumentation used to determine compliance with the requirements of this Permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. The Permittee shall develop and maintain quality assurance procedures to ensure proper operation and maintenance of all equipment and instrumentation. The quality assurance procedures shall include the proper use, maintenance, and installation, when appropriate, of monitoring equipment at the plant site.

**D. DISCHARGE REPORTING REQUIREMENTS**

**1. Requirements for Reporting of Monitoring**

- a. Monitoring results obtained during the previous three (3) months shall be summarized for each month on a Discharge Monitoring Report (DMR) Form approved by the Department, and submitted to the Department so that it is received by the Director no later than the 28<sup>th</sup> day of the month following the quarterly reporting period (i.e., on the 28<sup>th</sup> day of January, April, July, and October of each year).

- b. The Department utilizes a web-based electronic reporting system for submittal of DMRs. **Except as allowed by Part I.D.1.c. or d., the Permittee shall submit all DMRs required by Part I.D.1.a. by utilizing the Department's current electronic reporting system.** The Department's current reporting system, Alabama Environmental Permitting and Compliance System (AEPACS), can be found online at <https://aepacs.adem.alabama.gov/nviro/ncore/external/home>.
- c. If the electronic reporting system is down (i.e. electronic submittal of DMR data is unable to be completed due to technical problems originating with the Department's system; this could include entry/submittal issues with an entire set of DMRs or individual parameters), permittees are not relieved of their obligation to submit DMR data to the Department by the required submittal date. However, if the electronic reporting system is down on the 28th day of the month or is down for an extended period of time as determined by the Department when a DMR is required to be submitted, the facility may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within five calendar days of the electronic reporting system resuming operation, the Permittee shall enter the data into the reporting system unless an alternate timeframe is approved by the Department. An attachment should be included with the electronic DMR submittal verifying the original submittal date (date of the fax, copy of dated e-mail, or hand-delivery stamped date).
- d. The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable. Permittees with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The Permittee shall submit the Department-approved DMR forms to the address listed in Part I.D.1.i.
- e. If the Permittee, using approved analytical methods as specified in Part I.C.6., monitors any discharge from a point source identified on Page 1 of this Permit and describe more fully in the Permittee's application more frequently than required by this Permit; the results of such monitoring shall be included in the calculation and reporting of values on the DMR Form, and the increased frequency shall be indicated on the DMR Form.
- f. In the event no discharge from a point source identified on Page 1 of this Permit and described more fully in the Permittee's application occurs during a monitoring period, the Permittee shall report "No Discharge" for such period on the appropriate DMR Form.
- g. Each DMR Form submitted by the Permittee to the Department in accordance with Part I.D.1. must be legible and bear an original signature or electronic signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this Permit.
- h. All reports and forms required to be submitted by this Permit, the AWPCA, and the Department's rules and regulations, shall be signed by a "responsible official" of the Permittee as defined in ADEM Admin. Code r. 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Admin. Code r. 335-6-6-.09 and shall bear the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- i. All DMRs, reports, and forms required to be submitted by this Permit, the AWPCA and the Department's rules and regulations, shall be submitted through the Department's electronic reporting system, AEPACS, or, if in hardcopy, shall be addressed to:

Alabama Department of Environmental Management  
Water Division, Mining and Natural Resource Section  
Post Office Box 301463  
Montgomery, Alabama 36130-1463

Certified and Registered Mail shall be addressed to:

Alabama Department of Environmental Management  
Water Division, Mining and Natural Resource Section  
1400 Coliseum Boulevard  
Montgomery, Alabama 36110-2059

- j. Unless authorized in writing by the Department, approved reporting forms required by this Permit or the Department are not to be altered, and if copied or reproduced, must be consistent in format and identical in content to the ADEM approved form. Unauthorized alteration, falsification, or use of incorrectly reproduced forms constitutes noncompliance with the requirements of this Permit and may significantly delay processing of any request, result in denial of the request, result in permit termination, revocation, suspension, modification, or denial of a permit renewal application, or result in other enforcement action.
- k. If this Permit is a reissuance, then the Permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.D.1.

## 2. Noncompliance Notification

- a. The Permittee must notify the Department if, for any reason, the Permittee's discharge:
- (1) Potentially threatens human health or welfare;
  - (2) Potentially threatens fish or aquatic life;
  - (3) Causes an in-stream water quality criterion to be exceeded;
  - (4) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. §1317(a);

- (5) Contains a quantity of a hazardous substance which has been determined may be harmful to the public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. §1321(b)(4); or
- (6) Exceeds any discharge limitation for an effluent parameter as a result of an unanticipated bypass or upset.

The Permittee shall orally or electronically report any of the above occurrences, describing the circumstances and potential effects of such discharge to the Director within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral or electronic report, the Permittee shall submit to the Director a written report as provided in Part I.D.2.c., no later than five (5) days after becoming aware of the occurrence of such discharge.

- b. If for any reason, the Permittee's discharge does not comply with any limitation of this Permit, the Permittee shall submit a written report to the Director as provided in Part I.D.2.c. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Part I.D.1. of this Permit after becoming aware of the occurrence of such noncompliance.
- c. An electronic Noncompliance Notification Form in a Department-approved format must be submitted to the Director in accordance with Parts I.D.2.a. and b. The completed form must document the following information:
  - (1) A description of the discharge and cause of noncompliance;
  - (2) The period of noncompliance, including exact dates and times, or if not corrected, the anticipated time the noncompliance is expected to continue; and
  - (3) A description of the steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence.

### **3. Reduction, Suspension, or Termination of Monitoring and/or Reporting**

- a. The Director may, with respect to any point source identified on Page I of this Permit and described more fully in the Permittee's application, authorize the Permittee to reduce, suspend, or terminate the monitoring and/or reporting required by this Permit upon the submission of a written request for such reduction, suspension, or termination by the Permittee provided:
  - (1) All mining, processing, or disturbance in the drainage basin(s) associated with the discharge has ceased and site access is adequately restricted or controlled to preclude unpermitted and unauthorized mining, processing, transportation, or associated operations/activity;
  - (2) Permanent, perennial vegetation has been re-established on all areas mined or disturbed for at least one year since mining has ceased in the drainage basin(s) associated with the surface discharge, or all areas have been permanently graded such that all drainage is directed back into the mined pit to preclude all surface discharges;
  - (3) Unless waived in writing by the Department, the Permittee has been granted, in writing, a 100% Bond Release, if applicable, by the Alabama Department of Industrial Relations and, if applicable, by the Surface Mining Commission for all areas mined or disturbed in the drainage basin(s) associated with the discharge;

- (4) Unless waived in writing by the Department, the Permittee has submitted inspection reports prepared and certified by a Professional Engineer (PE) registered in the State of Alabama or a qualified professional under the PE's direction which certify that the facility has been fully reclaimed or that water quality remediation has been achieved. The first inspection must be conducted approximately one year prior to and the second inspection must be conducted within thirty days of the Permittee's request for termination of monitoring and reporting requirements;
  - (5) All surface effects of the mining activity such as fuel or chemical tanks, preparation plants or equipment, old tools or equipment, junk or debris, etc., must be removed and disposed of according to applicable state and federal regulations;
  - (6) The Permittee's request for termination of monitoring and reporting requirements contained in this Permit has been supported by monitoring data covering a period of at least six consecutive months or such longer period as is necessary to assure that the data reflect discharges occurring during varying seasonal climatological conditions;
  - (7) The Permittee has stated in its request that the samples collected and reported in the monitoring data submitted in support of the Permittee's request for monitoring termination or suspension are representative of the discharge and were collected in accordance with all Permit terms and conditions respecting sampling times (e.g., rainfall events) and methods and were analyzed in accordance with all Permit terms and conditions respecting analytical methods and procedures;
  - (8) The Permittee has certified that during the entire period covered by the monitoring data submitted, no chemical treatment of the discharge was provided;
  - (9) The Permittee's request has included the certification required by Part I.D.1.e. of this Permit; and
  - (10) The Permittee has certified to the Director in writing as part of the request, its compliance with (1) through (9) above.
- b. It remains the responsibility of the Permittee to comply with the monitoring and reporting requirements of this Permit until written authorization to reduce, suspend, or terminate such monitoring and/or reporting is received by the Permittee from the Director.

## **E. OTHER REPORTING AND NOTIFICATION REQUIREMENTS**

### **1. Anticipated Noncompliance**

The Permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

### **2. Termination of Discharge**

The Permittee shall notify the Director, in writing, when all discharges from any point source(s) identified on Page 1 of this Permit and described more fully in the Permittee's application have permanently ceased.

**3. Updating Information**

- a. The Permittee shall inform the Director of any change in the Permittee's mailing address or telephone number or in the Permittee's designation of a facility contact or officer(s) having the authority and responsibility to prevent and abate violations of the AWPCA, the AEMA, the Department's rules and regulations, and the terms and conditions of this Permit, in writing, no later than ten (10) days after such change. Upon request of the Director, the Permittee shall furnish the Director with an update of any information provided in the permit application.
- b. If the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

**4. Duty to Provide Information**

- a. The Permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, suspending, terminating, or revoking and reissuing this Permit, in whole or in part, or to determine compliance with this Permit. The Permittee shall also furnish to the Director upon request, copies of records required to be maintained by this Permit.
- b. The Permittee shall furnish to the Director upon request, within a reasonable time, available information (name, phone number, address, and site location) which identifies offsite sources of material or natural resources (mineral, ore, or other material such as iron, coal, coke, dirt, chert, shale, clay, sand, gravel, bauxite, rock, stone, etc.) used in its operation or stored at the facility.

**F. SCHEDULE OF COMPLIANCE**

The Permittee shall achieve compliance with the discharge limitations specified in Part I.A. of this Permit in accordance with the following schedule:

**Compliance must be achieved by the effective date of this Permit.**

## **PART II OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES**

### **A. OPERATIONAL AND MANAGEMENT REQUIREMENTS**

#### **1. Facilities Operation and Management**

The Permittee shall at all times operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of this Permit.

#### **2. Pollution Abatement and/or Prevention Plan**

a. The Pollution Abatement and/or Prevention (PAP) Plan shall be prepared and certified by a registered Professional Engineer (PE), licensed to practice in the State of Alabama, and shall include at a minimum:

- (1) The information indicated in ADEM Admin Code r. 335-6-9-.03 and ADEM Admin. Code ch. 335-6-9 and its Appendices A and B;
- (2) A description of methods which will be implemented to prevent offsite vehicle tracking onto roadways and/or into ditches at the entrances and/or exits of the Permittee's operations;
- (3) A description of setbacks from waters of the State in units of linear feet on the horizontal plane; a description of the methods taken to visibly delineate setbacks from waters of the State; and a description of any other actions taken to prevent encroachment upon setbacks;
- (4) A description of the methods used to delineate the boundaries of coverage under this Permit such that the boundaries are readily visible during the life of the operation;
- (5) A description of any other Best Management Practices (BMPs) which will be implemented to provide control of all nonpoint source pollution that is or may be associated with the Permittee's operations;

b. The PAP Plan shall become a part of this Permit and all requirements of the PAP Plan shall become requirements of this Permit pursuant to ADEM Admin Code r. 335-6-9-.05(2). The PAP Plan shall be amended if the Department determines that the existing sediment control measures, erosion control measures, or other site management practices are ineffective or do not meet the requirements of this Permit.

c. For existing sources, the PAP Plan shall be updated to include all requirements of this section within 180 days of the effective date of this permit. New sources shall submit the PAP plan with the NPDES Individual Permit application prior to coverage under this Permit.

#### **3. Best Management Practices (BMPs)**

- a. Unless otherwise authorized in writing by the Director, the Permittee shall provide a means of subsurface withdrawal for any discharge from each point source identified on Page 1 of this Permit and described more fully in the Permittee's application. Notwithstanding the above provision, a means of subsurface withdrawal need not be provided for any discharge caused by a 24-hour precipitation event greater than a 10-year, 24-hour precipitation event.
- b. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director has granted prior written authorization for dilution to meet water quality requirements.
- c. The Permittee shall minimize the contact of water with overburden, including but not limited to stabilizing disturbed areas through grading, diverting runoff, achieving quick growing stands of temporary vegetation, sealing acid-forming and toxic-forming materials, and maximizing placement of waste materials in back-fill areas.
- d. The Permittee shall prepare, submit to the Department for approval, and implement a Best Management Practices (BMPs) Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a potential for discharge, if so required by the Director. When submitted and approved, the BMP Plan shall become a part of this Permit and all requirements of the BMP Plan shall become requirements of this Permit.
- e. Spill Prevention, Control, and Management

The Permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan acceptable to the Department that is prepared and certified by a Professional Engineer (PE), registered in the State of Alabama, for all onsite petroleum product or other pollutant storage tanks or containers as provided by ADEM Admin. Code r. 335-6-6-.08(j)5. The Plan shall describe and the Permittee shall implement appropriate structural and/or non-structural spill prevention, control, and/or management pursuant to ADEM Admin. Code r. 335-6-6-.12 (r) sufficient to prevent any spills of pollutants from entering a ground or surface water of the State or a publicly or privately owned treatment works. The Plan shall include at a minimum, the engineering requirements provided in 40 C.F.R. §§112.1. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and shall prevent the contamination of groundwater. Such containment systems shall be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided. The Plan shall list any materials which the Permittee may utilize to contain and to absorb fuel and chemical spills and leaks. The Permittee shall maintain sufficient amounts of such materials onsite or have sufficient amounts of such materials readily available to contain and/or absorb fuel and chemical spills and leaks. Soil contaminated by chemical spills, oil spills, etc., must be immediately cleaned up or be removed and disposed of in a manner consistent with all State and federal regulations.

- f. All surface drainage and storm water runoff which originate within or enters the Permittee's premises and which contains any pollutants or other wastes shall be discharged, if at all, from a point source identified on Page 1 of this Permit and described more fully in the Permittee's application.
- g. The Permittee shall take all reasonable precautions to prevent any surface drainage or storm water runoff which originates outside the Permittee's premises and which contains any pollutants or other wastes from entering the Permittee's premises. At no time shall the Permittee discharge any such surface drainage or storm water runoff which enters the Permittee's premises if, either alone or in combination with the Permittee's effluent, the discharge would exceed any applicable discharge limitation specified in Part I.A. of this Permit.

**4. Biocide Additives**

- a. The Permittee shall notify the Director in writing not later than sixty (60) days prior to instituting the use of any biocide corrosion inhibitor or chemical additive in any cooling or boiler system(s) regulated by this Permit. Notification is not required for additives that should not reasonably be expected to cause the cooling water or boiler water to exhibit toxicity as determined by analysis of manufacturer's data or testing by the Permittee. Such notification shall include:
- (a) Name and general composition of biocide or chemical;
  - (b) 96-hour median tolerance limit data for organisms representative of the biota of the water(s) which the discharge(s) enter(s);
  - (c) Quantities to be used;
  - (d) Frequencies of use;
  - (e) Proposed discharge concentrations; and
  - (f) EPA registration number, if applicable.
- b. The use of any biocide or chemical additive containing tributyl tin, tributyl tin oxide, zinc, chromium, or related compounds in any cooling or boiler system(s) regulated by the Permit is prohibited except as exempted below. The use of a biocide or additive containing zinc, chromium or related compounds may be used in special circumstances if (1) the permit contains limits for these substances, or (2) the applicant demonstrates during the application process that the use of zinc, chromium or related compounds as a biocide or additive will not pose a reasonable potential to violate the applicable State water quality standards for these substances. The use of any additive, not identified in this Permit or in the application for this Permit or not exempted from notification under this Permit is prohibited, prior to a determination by the Department that permit modification to control discharge of the additive is not required or prior to issuance of a permit modification controlling discharge of the additive.

**5. Facility Identification**

The Permittee shall clearly display prior to commencement of any regulated activity and until permit coverage is properly terminated, the name of the Permittee, entire NPDES permit number, facility or site name, and other descriptive information deemed appropriate by the Permittee at an easily accessible location(s) to adequately identify the site, unless approved otherwise in writing by the Department. The Permittee shall repair or replace the sign(s) as necessary upon becoming aware that the identification is missing or is unreadable due to age, vandalism, theft, weather, or other reason.

**6. Removed Substances**

Solids, sludges, filter backwash, or any other pollutants or other wastes removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department rules and regulations.

**7. Loss or Failure of Treatment Facilities**

Upon the loss or failure of any treatment facility, including but not limited to the loss or failure of the primary source of power of the treatment facility, the Permittee shall, where necessary to maintain compliance with the discharge limitations specified in Part I.A. of this Permit or any other terms or conditions of this Permit, cease, reduce, or otherwise control production and/or discharges until treatment is restored.

**8. Duty to Mitigate**

The Permittee shall promptly take all reasonable steps to minimize or prevent any violation of this Permit or to mitigate and minimize any adverse impact to waters resulting from noncompliance with any discharge limitation specified in Part I.A. of this Permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as is necessary to determine the nature and impact of the noncomplying discharge.

**B. BYPASS AND UPSET**

**1. Bypass**

- a. Any bypass is prohibited except as provided in Parts II.B.I.b. and c.
- b. A bypass is not prohibited if:
  - (1) It does not cause any applicable discharge limitation specified in Part I.A. of this Permit to be exceeded;
  - (2) The discharge resulting from such bypass enters the same receiving water as the discharge from the permitted outfall;
  - (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system; and
  - (4) The Permittee monitors the discharge resulting from such bypass at a frequency, at least daily, sufficient to prove compliance with the discharge limitations specified in Part I.A. of this Permit.
- c. A bypass is not prohibited and need not meet the discharge limitations specified in Part I.A. of this Permit if:
  - (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
  - (2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the Permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
  - (3) The Permittee submits a written request for authorization to bypass to the Director at least ten (10) days, if possible, prior to the anticipated bypass or within 24 hours of an unanticipated bypass, the Permittee is granted such authorization, and Permittee complies with any conditions imposed by the Director to minimize any adverse impact to waters resulting from the bypass.

- d. The Permittee has the burden of establishing that each of the conditions of Parts II.B.1.b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in Part II.B.1.a. and an exemption, where applicable, from the discharge limitations specified in Part I.A. of this Permit.

**2. Upset**

- a. The Permittee may seek to demonstrate that noncompliance with technology-based effluent limits occurred as a result of an upset if the conditions of Part II.B.2.b are met and if the Permittee complies with the conditions provided in Part II.B.2.c.
- b. If the Permittee wishes to establish the affirmative defense of an upset for technology-based effluent limit noncompliance, the Permittee must demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - (1) An upset occurred and that the Permittee can identify the specific cause(s) of the upset;
  - (2) The wastewater treatment facility was at the time being properly operated in accordance with Part II.B.d.
  - (3) The Permittee submitted notice of the noncompliance during the upset as required by Part II.B.2.c; and
  - (4) The Permittee complied with any remedial measures required under Part II.A.7. of this Permit.
- c. If the Permittee wishes to establish the affirmative defense of an upset for technology-based effluent limit noncompliance, the Permittee shall:
  - (1) No later than 24-hours after becoming aware of the occurrence of the upset, orally report the occurrence and circumstances of the upset to the Director in accordance with Part I.G.2.; and
  - (2) No later than five (5) days after becoming aware of the occurrence of the upset, furnish the Director with evidence, including properly signed, contemporaneous operating logs, design drawings, construction certification, maintenance records, weir flow measurements, dated photographs, rain gauge measurements, or other relevant evidence, demonstrating that:
    - (i) An upset occurred;
    - (ii) The Permittee can identify the specific cause(s) of the upset;
    - (iii) The Permittee's treatment facility was being properly operated at the time of the upset; and
    - (iv) The Permittee promptly took all reasonable steps to minimize any adverse impact to waters resulting from the upset.
- d. A discharge which is an overflow from a treatment facility or system, or an excess discharge from a point source associated with a treatment facility or system and which results from a 24-hour precipitation event larger than a 10-year, 24-hour precipitation event is not eligible to be considered as a result of an upset unless:

- (1) The treatment facility or system is designed, constructed, and maintained to contain the maximum volume of wastewater which would be generated by the facility during a 24-hour period without an increase in volume from precipitation and the maximum volume of wastewater resulting from a 10-year, 24-hour precipitation event or to treat the maximum flow associated with these volumes. In computing the maximum volume of wastewater which would result from a 10-year, 24-hour precipitation event, the volume which would result from all areas contributing runoff to the individual treatment facility must be included (i.e., all runoff that is not diverted from the mining area and runoff which is not diverted from the preparation plant area); and
  - (2) The Permittee takes all reasonable steps to maintain treatment of the wastewater and minimize the amount of overflow or excess discharge.
- e. The Permittee has the burden of proof in defense of any enforcement action as a result of noncompliance of technology-based effluent limits the Permittee proposes to attribute to an upset.

## **C. PERMIT CONDITIONS AND RESTRICTIONS**

### **1. Prohibition against Discharge from Facilities Not Certified**

- a. Notwithstanding any other provisions of this Permit, if the permitted facility has not obtained or is not required to obtain a permit from the Alabama Surface Mining Commission, any discharge(s) from any point or nonpoint source(s) from the permitted facility which was not certified to the Department on a form approved by the Department by a professional engineer, registered in the State of Alabama, as being designed, constructed, and in accordance with plans and specifications reviewed by the Department is prohibited; or
- b. Notwithstanding any other provisions of this Permit, if the permitted facility has obtained or is required to obtain a permit from the Alabama Surface Mining Commission, any discharge(s) from any point or nonpoint source(s) from the permitted facility which is associated with a treatment facility which was not constructed and certified to the Alabama Surface Mining Commission pursuant to applicable provisions of said Commission's regulations, is prohibited until the Permittee submits to the Alabama Surface Mining Commission, certification by a professional engineer, registered in the State of Alabama, certifying that such facility has been constructed in accordance with plans and specifications approved by the Alabama Surface Mining Commission. This requirement shall not apply to pumped discharges from the underground works of underground coal mines where no surface structure is required by the Alabama Surface Mining Commission, provided the Department is notified in writing of the completion or installation of such facilities, and the pumped discharges will meet permit effluent limits without treatment.

### **2. Permit Modification, Suspension, Termination, and Revocation**

- a. This Permit may be modified, suspended, terminated, or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
  - (1) The violation of any term or condition of this Permit;

- (2) The obtaining of this Permit by misrepresentation or the failure to disclose fully all relevant facts;
  - (3) The submission of materially false or inaccurate statements or information in the permit application or reports required by the Permit;
  - (4) The need for a change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
  - (5) The existence of any typographical or clerical errors or of any errors in the calculation of discharge limitations;
  - (6) The existence of material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
  - (7) The threat of the Permittee's discharge on human health or welfare; or
  - (8) Any other cause allowed by ADEM Admin. Code ch. 335-6-6.
- b. The filing of a request by the Permittee for modification, suspension, termination, or revocation and reissuance of this Permit, in whole or in part, does not stay any Permit term or condition of this Permit.

### **3. Requirements for Metals, Cyanide, and Phenols Monitoring and Reporting**

- a. For all outfalls, the Permittee shall collect a sample of the discharge to be analyzed for antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, zinc, cyanide, and phenols no later than six months following the effective date of the Permit. The analyses shall be submitted on EPA Form 2C and received by the Department no later than 28 days following six months after the effective date of the Permit.
- b. For all outfalls, should a discharge not occur within the first six months following the effective date of this Permit, the Permittee shall collect a sample of the discharge to be analyzed for antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, zinc, cyanide, and phenols no later than six months following the date of the first discharge. The analyses shall be submitted on EPA Form 2C and received by the Department no later than 28 days following six months after the first discharge.
- c. Parts II.C.3.a. and b. do not apply for any outfall that is represented by analyses conducted at a substantially similar outfall as indicated on EPA Form 2C or 2D.
- d. The Permit shall be reopened, if required, to address any new information resulting from the completion and submittal of the data referenced in Parts II.C.3.a. and b.

### **4. Automatic Expiration of Permits for New or Increased Discharges**

- a. Except as provided by ADEM Admin. Code r. 335-6-6-.02(h) and 335-6-6-.05, if this Permit was issued for a new discharger or new source, it shall expire eighteen months after the issuance date if construction has not begun during that eighteen month period.

- b. Except as provided by ADEM Admin. Code r. 335-6-6-.02(h) and 335-6-6-.05, if any portion of this Permit was issued or modified to authorize the discharge of increased quantities of pollutants to accommodate the modification of an existing facility, that portion of this Permit shall expire eighteen months after this Permit's issuance if construction of the modification has not begun within eighteen month period.
- c. Construction has begun when the owner or operator has:
  - (1) Begun, or caused to begin as part of a continuous on-site construction program:
    - (i) Any placement, assembly, or installation of facilities or equipment; or
    - (ii) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or
  - (2) Entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under the paragraph. The entering into a lease with the State of Alabama for exploration and production of hydrocarbons shall also be considered beginning construction.
- d. The automatic expiration of this Permit for new or increased discharges if construction has not begun within the eighteen month period after the issuance of this Permit may be tolled by administrative or judicial stay.

**5. Transfer of Permit**

This Permit may not be transferred or the name of the Permittee changed without notice to the Director and subsequent modification or revocation and reissuance of this Permit to identify the new Permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership, or control of the Permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership, or control of the Permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership, or control, he may decide not to modify the existing Permit and require the submission of a new permit application.

**6. Groundwater**

Unless authorized on page 1 of this Permit, this Permit does not authorize any discharge to groundwater. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem, and the Director may require that the Permittee undertake measures to abate any such discharge and/or contamination.

**7. Property and Other Rights**

This Permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, trespass, or any infringement of Federal, State, or local laws or regulations, nor does it authorize or

approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the State or of the United States.

## D. RESPONSIBILITIES

### 1. Duty to Comply

- a. The Permittee must comply with all terms and conditions of this Permit. Any permit noncompliance constitutes a violation of the AWPCA, AEMA, and the FWPCA and is grounds for enforcement action, for permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.
- b. The Permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the FWPCA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if this Permit has not yet been modified to incorporate the effluent standard, prohibition or requirement.
- c. For any violation(s) of this Permit, the Permittee is subject to a civil penalty as authorized by the AWPCA, the AEMA, the FWPCA, and Code of Alabama 1975, §§22-22A-1 et. seq., as amended, and/or a criminal penalty as authorized by Code of Alabama 1975, §22-22-1 et. seq., as amended.
- d. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of this Permit shall not be a defense for a Permittee in an enforcement action.
- e. Nothing in this Permit shall be construed to preclude or negate the Permittee's responsibility or liability to apply for, obtain, or comply with other ADEM, federal, state, or local government permits, certifications, licenses, or other approvals.
- f. The discharge of a pollutant from a source not specifically identified in the permit application for this Permit and not specifically included in the description of an outfall in this Permit is not authorized and shall constitute noncompliance with this Permit.
- g. The Permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this Permit or to minimize or prevent any adverse impact of any permit violation.

### 2. Change in Discharge

- a. The Permittee shall apply for a permit modification at least 180 days in advance of any facility expansion, production increase, process change, or other action that could result in the discharge of additional pollutants, increase the quantity of a discharged pollutant, or that could result in an additional discharge point. This requirement also applies to pollutants that are not subject to discharge limitations in this Permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.
- b. The Permittee shall notify the Director as soon as it knows or has reason to believe that it has begun or expects to begin to discharge any pollutant listed as a toxic pollutant pursuant to Section 307(a) of the FWPCA, 33 U.S.C. §1317(a), any substance designated as a hazardous substance pursuant to Section 311(b)(2) of the FWPCA, 33 U.S.C. §1321(b)(2), any waste listed as a hazardous waste pursuant to Code of Alabama 1975, §22-30-10, or any other pollutants or other wastes which is not subject to any discharge limitations

specified in Part I.A. of this Permit and was not reported in the Permittee's application, was reported in the Permittee's application in concentrations or mass rates lower than that which the Permittee expects to begin to be discharged, or has reason to believe has begun to be discharged.

**3. Compliance with Toxic or Other Pollutant Effluent Standard or Prohibition**

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Sections 301(b)(2)(C),(D),(E) and (F) of the FWPCA, 33 U.S.C. §1311(b)(2)(C),(D),(E), and (F); 304(b)(2) of the FWPCA, 33 U.S.C. §1314(b)(2); or 307(a) of the FWPCA, 33 U.S.C. §1317(a), for a toxic or other pollutant discharged by the Permittee, and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Part I.A. of this Permit or controls a pollutant not limited in Part I.A. of this Permit, this Permit shall be modified to conform to the toxic or other pollutant effluent standard or prohibition and the Permittee shall be notified of such modification. If this Permit has not been modified to conform to the toxic or other pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the authorization to discharge in this Permit shall be void to the extent that any discharge limitation on such pollutant in Part I.A. of this Permit exceeds or is inconsistent with the established toxic or other pollutant effluent standard or prohibition.

**4. Compliance with Water Quality Standards and Other Provisions**

- a. On the basis of the Permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this Permit will assure compliance with applicable water quality standards. However, this Permit does not relieve the Permittee from compliance with applicable State water quality standards established in ADEM Admin. Code ch. 335-6-10, and does not preclude the Department from taking action as appropriate to address the potential for contravention of applicable State water quality standards which could result from discharges of pollutants from the permitted facility.
- b. Compliance with Permit terms and conditions notwithstanding, if the Permittee's discharge(s) from point source(s) identified on Page 1 of this Permit cause(s) or contribute(s) to a condition in contravention of State water quality standards, the Department may require abatement action to be taken by the Permittee, modify the Permit pursuant to the Department's rules and regulations, or both.
- c. If the Department determines, on the basis of a notice provided pursuant to Part II.C.2. of this Permit or any investigation, inspection, or sampling, that a modification of this Permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification and, in cases of emergency, the Director may prohibit the noticed act until the Permit has been modified.

**5. Compliance with Statutes and Rules**

- a. This Permit has been issued under ADEM Admin. Code div. 335-6. All provisions of this division, that are applicable to this Permit, are hereby made a part of this Permit. A copy of this division may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Blvd., Montgomery, AL 36110-2059.

- b. This Permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

**6. Right of Entry and Inspection**

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:

- a. Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the 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; and
- d. Sample or monitor at reasonable times, for the purposes of assuring Permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

**7. Duty to Reapply or Notify of Intent to Cease Discharge**

- a. If the Permittee intends to continue to discharge beyond the expiration date of this Permit, the Permittee shall file with the Department a complete permit application for reissuance of this Permit at least 180 days prior to its expiration. **Applications must be submitted electronically via the Department's current electronic permitting system. The Department's current online permitting system, Alabama Environmental Permitting and Compliance System (AEPACS), can be found online at <https://aepacs.adem.alabama.gov/nviro/ncore/external/home>.**
- b. If the Permittee does not desire to continue the discharge(s) allowed by this Permit, the Permittee shall notify the Department at least 180 days prior to expiration of this Permit of the Permittee's intention not to request reissuance of this Permit. This notification must include the information required in Part I.D.4.a. and be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Admin. Code r. 335-6-6-.09.
- c. Failure of the Permittee to submit to the Department a complete application for reissuance of this Permit at least 180 days prior to the expiration date of this Permit will void the automatic continuation of this Permit provided by ADEM Admin. Code r. 335-6-6-.06; and should this Permit not be reissued for any reason, any discharge after the expiration of this Permit will be an unpermitted discharge.

## **PART III ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS**

### **A. CIVIL AND CRIMINAL LIABILITY**

#### **1. Tampering**

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under this Permit shall, upon conviction, be subject to penalties and/or imprisonment as provided by the AWPCA and/or the AEMA.

#### **2. False Statements**

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished as provided by applicable State and Federal law.

#### **3. Permit Enforcement**

This NPDES Permit is a Permit for the purpose of the AWPCA, the AEMA, and the FWPCA, and as such all terms, conditions, or limitations of this Permit are enforceable under State and Federal law.

#### **4. Relief From Liability**

Except as provided in Part II.B.1. (Bypass) and Part II.B.2. (Upset), nothing in this Permit shall be construed to relieve the Permittee of civil or criminal liability under the AWPCA, AEMA, or FWPCA for noncompliance with any term or condition of this Permit.

### **B. OIL AND HAZARDOUS SUBSTANCE LIABILITY**

Nothing in this Permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties to which the Permittee is or may be subject to under Section 311 of the FWPCA, 33 U.S.C. §1321.

### **C. AVAILABILITY OF REPORTS**

Except for data determined to be confidential under Code of Alabama 1975, §22-22-9(c), all reports prepared in accordance with the terms of this Permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential. Knowingly making any false statement in any such report may result in the imposition of criminal penalties as provided for in Section 309 of the FWPCA, 33 U.S.C. §1319, and Code of Alabama 1975, §22-22-14.

### **D. DEFINITIONS**

1. Alabama Environmental Management Act (AEMA) - means Code of Alabama 1975, §§22-22A-1 et. seq., as amended.
2. Alabama Water Pollution Control Act (AWPCA) - means Code of Alabama 1975, §§22-22-1 et. seq., as amended.
3. Average monthly discharge limitation - means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar

month divided by the number of "daily discharges" measured during that month (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).

4. Arithmetic Mean - means the summation of the individual values of any set of values divided by the number of individual values.
5. BOD - means the five-day measure of the pollutant parameter biochemical oxygen demand
6. Bypass - means the intentional diversion of waste streams from any portion of a treatment facility.
7. CBOD - means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. Controlled Surface Mine Drainage – means any surface mine drainage that is pumped or siphoned from the active mining area.
9. Daily discharge - means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
10. Daily maximum - means the highest value of any individual sample result obtained during a day.
11. Daily minimum - means the lowest value of any individual sample result obtained during a day.
12. Day - means any consecutive 24-hour period.
13. Department - means the Alabama Department of Environmental Management.
14. Director - means the Director of the Department or his authorized representative or designee.
15. Discharge - means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state." Code of Alabama 1975, §22-22-1(b)(8).
16. Discharge monitoring report (DMR) - means the form approved by the Director to accomplish monitoring report requirements of an NPDES Permit.
17. DO - means dissolved oxygen.
18. E. coli – means the pollutant parameter Escherichia coli.
19. 8HC - means 8-hour composite sample, including any of the following:
  - a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
  - b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
20. EPA - means the United States Environmental Protection Agency.

21. Federal Water Pollution Control Act (FWPCA) - means 33 U.S.C. §§1251 et. seq., as amended.
22. Flow – means the total volume of discharge in a 24-hour period.
23. Geometric Mean - means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
24. Grab Sample - means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
25. Indirect Discharger - means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
26. Industrial User - means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category “Division D – Manufacturing” and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
27. mg/L - means milligrams per liter of discharge.
28. MGD - means million gallons per day.
29. Monthly Average - means, other than for E. coli bacteria, the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for E. coli bacteria is the geometric mean of daily discharge samples collected in a one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period. (Zero discharges shall not be included in the calculation of monthly averages.)
30. New Discharger - means a person owning or operating any building, structure, facility or installation:
  - a. From which there is or may be a discharge of pollutants;
  - b. From which the discharge of pollutants did not commence prior to August 13, 1979, and which is not a new source; and
  - c. Which has never received a final effective NPDES Permit for dischargers at that site.
31. New Source - means:
  - a. A new source as defined for coal mines by 40 CFR Part 434.11 (1994); and
  - b. Any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
    - (1) After promulgation of standards of performance under Section 306 of FWPCA which are applicable to such source; or
    - (2) After proposal of standards of performance in accordance with Section 306 of the FWPCA which are applicable to such source, but only if the standards are promulgated in accordance with Section 206 within 120 days of their proposal.
32. NH<sub>3</sub>-N - means the pollutant parameter ammonia, measured as nitrogen.

33. 1-year, 24-hour precipitation event - means the maximum 24-hour precipitation event with a probable recurrence interval of once in one year as defined by the National Weather Service and Technical Paper No. 40, "Rainfall Frequency Atlas of the U.S.," May 1961, or equivalent regional or rainfall probability information developed therefrom.
34. Permit application - means forms and additional information that are required by ADEM Admin. Code r. 335-6-6-.08 and applicable permit fees.
35. Point Source - means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. §1362(14).
36. Pollutant - includes for purposes of this Permit, but is not limited to, those pollutants specified in Code of Alabama 1975, §22-22-1(b)(3) and those effluent characteristics, excluding flow, specified in Part I.A. of this Permit.
37. Pollutant of Concern - means those pollutants for which a water body is listed as impaired or which contribute to the listed impairment.
38. Pollution Abatement and/or Prevention Plan (PAP Plan) – mining operations plan developed to minimize impacts on water quality to avoid a contravention of the applicable water quality standards as defined in ADEM Admin. Code r. 335-6-9-.03
39. Preparation, Dry - means a dry preparation facility within which the mineral/material is cleaned, separated, or otherwise processed without use of water or chemical additives before it is shipped to the customer or otherwise utilized. A dry preparation plant includes all ancillary operations and structures necessary to clean, separate, or otherwise process the mineral/material, such as storage areas and loading facilities. Dry preparation also includes minor water spray(s) used solely for dust suppression on equipment and roads to minimize dust emissions.
40. Preparation, Wet - means a wet preparation facility within which the mineral/material is cleaned, separated, or otherwise processed using water or chemical additives before it is shipped to the customer or otherwise utilized. A wet preparation plant includes all ancillary operations and structures necessary to clean, separate, or otherwise process the mineral/material, such as storage areas and loading facilities. Wet preparation also includes mineral extraction/processing by dredging, slurry pumping, etc.
41. Privately Owned Treatment Works - means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
42. Publicly Owned Treatment Works (POTW) - means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
43. Receiving Stream - means the "waters" receiving a "discharge" from a "point source".
44. Severe property damage - means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
45. 10-year, 24-hour precipitation event - means that amount of precipitation which occurs during the maximum 24-hour precipitation event with a probable recurrence interval of once in ten years as

defined by the National Weather Service and Technical Paper No. 40, "Rainfall Frequency Atlas of the U.S.," May 1961, or equivalent regional or rainfall probability information developed therefrom.

46. TKN - means the pollutant parameter Total Kjeldahl Nitrogen.
47. TON - means the pollutant parameter Total Organic Nitrogen.
48. TRC - means Total Residual Chlorine.
49. TSS – means the pollutant parameter Total Suspended Solids
50. Treatment facility and treatment system - means all structures which contain, convey, and as necessary, chemically or physically treat mine and/or associated preparation plant drainage, which remove pollutants limited by this Permit from such drainage or wastewater. This includes all pipes, channels, ponds, tanks, and all other equipment serving such structures.
51. 24HC - means 24-hour composite sample, including any of the following:
  - a. The mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
  - b. A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
  - c. A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
52. 24-hour precipitation event - means that amount of precipitation which occurs within any 24-hour period.
53. 2-year, 24-hour precipitation event - means the maximum 24-hour precipitation event with a probable recurrence interval of once in two years as defined by the National Weather Service and Technical Paper No. 40, "Rainfall Frequency Atlas of the U.S.," May 1961, or equivalent regional or rainfall probability information developed therefrom.
54. Upset - means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate facilities, lack of preventive maintenance, or careless or improper operation.
55. Waters - means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the State, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership, or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, §22-22-1(b)(2). "Waters" include all "navigable waters" as defined in §502(7) of the FWPCA, 33 U.S.C. §1362(7), which are within the State of Alabama.
56. Week - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
57. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the

Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

**E. 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.

**F. PROHIBITIONS AND ACTIVITIES NOT AUTHORIZED**

1. Discharges from disposal or landfill activities as described in ADEM Admin. Code div. 335-13 are not authorized by this Permit unless specifically approved by the Department.
2. Relocation, diversion, or other alteration of a water of the State is not authorized by this Permit unless specifically approved by the Department.
3. Lime or cement manufacturing or production and discharge of process waters from such manufacturing or production is not authorized by this Permit unless specifically approved by the Department.
4. Concrete or asphalt manufacturing or production and discharge of process waters from such manufacturing or production is not authorized by this Permit unless specifically approved by the Department.
5. The discharge of wastewater, generated by any process, facility, or by any other means not under the operational control of the Permittee or not identified in the application for this Permit or not identified specifically in the description of an outfall in this Permit is not authorized by this Permit.

**G. DISCHARGES TO IMPAIRED WATERS**

1. This Permit does not authorize new sources or new discharges of pollutants of concern to impaired waters unless consistent with an EPA-approved or EPA-established Total Maximum Daily Load (TMDL) and applicable State law, or unless compliance with the limitations and requirements of the Permit ensure that the discharge will not contribute to further degradation of the receiving stream. Impaired waters are those that do not meet applicable water quality standards and are identified on the State of Alabama's §303(d) list or on an EPA-approved or EPA-established TMDL. Pollutants of concern are those pollutants for which the receiving water is listed as impaired or contribute to the listed impairment.
2. Facilities that discharge into a receiving stream which is listed on the State of Alabama's §303(d) list of impaired waters, and with discharges that contain the pollutant(s) for which the waters are impaired, must within six (6) months of the Final §303(d) list approval, document in its BMP plan how the BMPs will control the discharge of the pollutant(s) of concern, and must ensure that there will be no increase of the pollutants of concern. A monitoring plan to assess the effectiveness of the BMPs in achieving the allocations must also be included in the BMP plan.
3. If the facility discharges to impaired waters as described above, it must determine whether a TMDL has been developed and approved or established by EPA for the listed waters. If a TMDL is approved or established during this Permit cycle by EPA for any waters into which the facility discharges, the facility must review the applicable TMDL to see if it includes requirements for control of any water discharged by the Permittee. Within six (6) months of the date of TMDL approval or establishment, the facility must notify the Department on how it will modify its BMP plan to include best management practices specifically targeted to achieve the allocations prescribed

by the TMDL, if necessary. Any revised BMP plans must be submitted to the Department for review. The facility must include in the BMP plan a monitoring component to assess the effectiveness of the BMPs in achieving the allocations.

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
WATER DIVISION**

**NPDES INDIVIDUAL PERMIT RATIONALE**

**Company Name:** Reed Materials, LLC

**Facility Name:** Project New Road

**County:** Marshall

**Permit Number:** AL0084532

**Prepared by:** Robert Glover

**Date:** March 4, 2026

**Receiving Waters:** Unnamed Tributary to Browns Creek  
Unnamed Tributary to Shiloh Branch

**Permit Coverage:** Limestone Quarry, Wet and Dry Preparation Plant, Transportation and Storage, and Associated Areas

**SIC Code:** 1422

The Department has made a tentative determination that the available information is adequate to support issuance of this permit.

This proposed permit covers a limestone quarry, wet and dry preparation plant, transportation and storage, and associated areas which discharge to surface waters of the state.

The proposed permit authorizes treated discharges into an Unnamed Tributary to Browns Creek and an Unnamed Tributary to Shiloh Branch both classified as Fish and Wildlife (F&W) per ADEM Admin. Code ch. 335-6-11. If the requirements of the proposed permit are fully implemented, the facility will not discharge pollutants at levels that will cause or contribute to a violation of the Fish and Wildlife (F&W) classification.

Full compliance with the proposed permit terms and conditions is expected to be protective of instream water quality and ensure consistency with applicable instream State water quality standards (WQS) for the receiving stream.

Technology Based Effluent Limits (TBELs) for crushed stone mining facilities can be found in 40 CFR 436.22(1) and (2) for facilities that recycle waste water for use in processing and mine dewatering, respectively. The TBELs were promulgated for existing dischargers using the Best Practicable Control Technology Available (BPT). New Source Performance Standards (NSPS) have not yet been developed by the EPA for the Crushed Stone Subcategory.

Information provided in the Permittee's application indicated that Outfall 001-1, 002-1, and 003-1 could discharge chronically when the discharge/stream flow ratio may be high; therefore, discharge limitations for pH of 6.0 – 8.5 s.u. are proposed for Outfall 001 -1, 002-1, and 003-1 per ADEM Admin Code r. 335-6-10-.09.

The TBELs for 40 CFR 436 Subpart B do not include limitations for Total Suspended Solids (TSS). TSS is classified as a conventional pollutant in 40 CFR 401.16 and is expected to be discharged from this type of facility. Therefore, monthly average and daily maximum effluent limitations for TSS are those proposed by the EPA for crushed stone mine drainage in the *Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Mineral Mining and Processing Point Source Category* (July 1979).

The applicant has requested, in accordance with 40 CFR Part 122.21 and their NPDES permit application, a waiver from testing for the Part A, B, and C pollutants listed in the EPA Form 2C and 2D that are not addressed in their application. They have also certified that due to the processes involved in their mining activity these pollutants are believed to be not present in the waste stream.

The proposed permit requires the submittal of new metals, arsenic, cyanide, and phenols data within six months of the effective date of the Permit or within six months of the first discharge from each outfall. The Permittee must now sample at each permitted outfall within the timeframes mentioned above. The Permit shall be reopened, if required, to address any new information resulting from the submittal of the new effluent data.

The Pollution Abatement/Prevention (PAP) plan for this facility has been prepared by a professional engineer (PE) registered in the State of Alabama and is designed to ensure reduction of pollutants in the waste stream to a level that, if operated properly, the discharge will not contribute to or cause a violation of applicable State WQS. The proposed permit terms and conditions are predicated on the basis of ensuring a reduction of pollutants in the discharge to a level that reduces the potential of contributing to or causing a violation of applicable State WQS.

In accordance with ADEM Admin. Code r. 335-6-3-.07 the design PE, as evidenced by their seal and/or signature on the application, has accepted full responsibility for the effectiveness of the waste treatment facility to treat the Permittee's effluent to meet NPDES permit limitations and requirements, and to fully comply with Alabama's WQS, when such treatment facilities are properly operated.

If there is a reasonable potential that a pollutant present in the treated discharges from a facility could cause or contribute to a contravention of applicable State WQS above numeric or narrative criteria, 40 CFR Part 122 requires the Department to establish effluent limits using calculated water quality criterion, establish effluent limits on a case-by-case basis using criteria established by EPA, or establish effluent limits based on an indicator parameter. Based on available information, potential pollutants discharged from this facility, if discharged within the concentrations allowed by this permit, would not have a reasonable potential to cause or contribute to a contravention of applicable State WQS.

Pursuant to ADEM Admin. Code r. 335-6-6-.12(r) this permit requires the Permittee to design and implement a Spill Prevention Control and Countermeasures (SPCC) plan for all stored chemicals, fuels and/or stored pollutants that have the potential to discharge to a water of the State. This plan must meet the minimum engineering requirements as defined in 40 CFR Part 112 and must provide for secondary containment adequate to control a potential spill.

The applicant is not proposing discharges of pollutants to a water of the State with an approved Total Maximum Daily Load (TMDL).

The applicant is not proposing discharges into a stream segment or other State water that is included on Alabama's current CWA §303(d) list. However, the receiving streams flow into Browns Creek, a State water that is included on the current CWA §303(d) list for Pathogens and Nutrients (E Coli). E. Coli is not

a pollutant that is expected in significant concentrations from this type of operation. The Department believes that the required nutrient monitoring provides reasonable assurance that the pollutants will not be present in the discharge at levels of concern and/or the facility will not discharge pollutants at levels that will cause or contribute to violation of applicable State water quality standards in the receiving water. If the requirements of the proposed permit and pollution abatement plan are fully implemented, there is reasonable assurance that the facility will not discharge pollutants at levels that will cause or contribute to any further impairment of Browns Creek.

The applicant is not proposing new discharges of pollutant(s) to an ADEM identified Tier I water.

The proposed permit action authorizes new discharges of pollutants to receiving waters determined by the Department to be waters where the quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water (Tier II). Pursuant to ADEM Admin. Code r. 335-6-10 (Antidegradation Policy and Implementation of the Antidegradation Policy), the applicant has submitted and the Department has reviewed and considered information regarding (1) demonstration of necessity/importance, (2) alternatives analysis, and (3) calculations of total annualized costs for technically feasible treatment alternatives regarding the proposed new discharges to Tier II waters. The Department has determined, based on the applicant's demonstration, that the proposed new discharges to the Tier II waters are necessary for important economic or social development in the area in which the waters are located.

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
WATER DIVISION**

**ANTIDegradation Rationale**

**Company Name:** Reed Materials, LLC

**Facility Name:** Project New Road

**County:** Marshall

**Permit Number:** AL0084532

**Prepared by:** Robert Glover

**Date:** March 4, 2026

**Receiving Waters:** Unnamed Tributary to Browns Creek  
Unnamed Tributary to Shiloh Branch

**Stream Category:** Tier II as defined by ADEM Admin. Code 335-6-10-.12

**Discharge Description:** This proposed permit covers a limestone quarry, wet and dry preparation plant, transportation and storage, and associated areas which discharge to surface waters.

**The following preliminary determination was prepared in accordance with ADEM Admin. Code 335-6-10-.12 (7) (c):**

The Department has reviewed the information submitted by applicant in accordance with ADEM Admin. Code 335-6-10-.12(9). The applicant has demonstrated that there are no technically or economically viable treatment options in its alternatives analysis that would completely eliminate a direct discharge.

The permit applicant has indicated that the following economic and social benefits will result from this project:

1. The Permittee will be providing 10 new jobs to area residents.
2. The Permittee estimates that \$431,250.00 will be paid annually in state and local taxes.
3. The Permittee will supply crushed limestone products to be used for construction and farming activities in the community and surrounding areas.
4. The Permittee will be providing local jobs and will be paying local and state taxes.

The Department has determined that the discharge proposed by the permit applicant is necessary for important economic and social development in the area of the outfall location in the receiving water.

**Reviewed By:** William McClimans

**Date:** March 2, 2026

# NPDES Individual Application - Mining (Form 315)

version 3.4

(Submission #: HQH-182V-VT1EW, version 4)

Digitally signed by:  
AEPACS  
Date: 2026.03.03 13:41:48 -06:00  
Reason: Submission Data  
Location: State of Alabama

## Details

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Submission ID HQH-182V-VT1EW

## Form Input

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### Processing Information

Is this a coalbed methane operation?

No

Please indicate the purpose of this application:

Initial Permit Application for New Facility

### General Instructions

NPDES Individual Permit Application ♦ Mining Operations (Form 315)

This form should be used to submit an application for an NPDES individual permit to authorize discharges from surface & underground mineral, ore, or mineral product mining, quarrying, excavation, borrowing, hydraulic mining, storage, processing, preparation, recovery, handling, loading, storing, or disposing activities, and associated areas including pre-mining site development, construction, excavation, clearing, disturbance, and reclamation.

Incomplete or incorrect answers or missing signatures will delay processing. Attach additional comments or information as needed. Commencement of activities applied for as detailed in this application are not authorized until permit coverage has been issued by the Department.

[For assistance, please click here to determine the permit staff responsible for the site or call \(334\) 394-4372.](#)

[Please click here for the Alabama 303\(d\) list of Impaired Waters](#)

[Please click here for Information on Alabama TMDLs](#)

### Permittee Information

#### Permittee

**Permittee Name**

Reed Materials, LLC

**Mailing Address**

1039 Bean Rock Road

Union Grove, AL 35175

## Responsible Official

### Prefix

Mr.

### First Name Last Name

Chastin Reed

### Title

Managing Member

### Organization Name

Reed Materials, LLC

### Phone Type Number Extension

Business 256-990-4331

### Email

chastinr@reedmaterials.com

### Mailing Address

1039 Bean Rock Road

Union Grove, AL 35175

## Facility/Operations Information

### Facility/Operations Name

Project New Road

### Permittee Organization Type

LLC

### Parent Corporation and Subsidiary Corporations of Applicant, if any:

N/A

### Landowner(s) Name, Address and Phone Number:

Stone Mountain, LLC  
7271 Warrenton Road  
Guntersville, AL 35976

### Sub-contractor(s)/Operator(s), if known:

N/A

### Is the "Company/Permittee" properly registered and in good standing with the Alabama Secretary of State's office?

Yes

### Facility/Operations Address or Location Description

7442 Warrenton Road  
on the western side of Warrenton Road; approx. 0.75-mi south of Fry Gap Road  
Guntersville, AL 35976

### Facility/Operations County (Front Gate)

Marshall

### Do the operations span multiple counties?

No

### Detailed Directions to the Facility/Operations

Starting in Huntsville, AL at the intersection of I565 and Hwy 231, travel south on Hwy 231 for approximately 30-miles. Turn left onto Main Street and continue for about 2-miles into the city of Arab. Turn left onto Fry Gap Road and continue for 6-miles. Turn right onto Warrenton Road and the site entrance will be on the right after 1-mile.

### Please refer to the link below for Lat/Long map instruction help:

[Map Instruction Help](#)

### Facility/Operations Front Gate Latitude and Longitude

34.270909,-86.414967

Township(s), Range(s), Section(s) (Note: If you are submitting multiple TRSs, please separate each TRS by a semicolon.

Example: T19S,R1E,S15; T20S,R2E,S16)

T9S, R2E, S3, and 10

SIC Code(s) [Please select your primary SIC code first]:

1422-Crushed and Broken Limestone

NAICS Code(s) [Please select your primary NAICS code first]:

212312-Crushed and Broken Limestone Mining and Quarrying

**Facility/Operations Contact**

**Prefix**

Mr.

**First Name      Last Name**

Dusty              Whisenant

**Title**

Quarry Superintendent

**Organization Name**

Reed Materials, LLC

**Phone Type    Number            Extension**

Mobile            256-200-6193

**Email**

dustyw@reedmaterials.com

**Member Information**

Identify the name, title/position, and unless waived in writing by the Department, the resident address of every officer (a PO Box is not acceptable), general partner, LLP partner, LLC member, investor, director, or person performing a function similar to a director, of the applicant, and each person who is the record or beneficial owner of 10 percent or more of any class of voting stock of the applicant, or any other responsible official(s) of the applicant with legal or decision making responsibility or authority for the facility/operations:

List of Names/Titles/Addresses, as described in the instructions above, will be entered by:

Manually Entering in Table

Name	Title/Position	Physical Address of Residence
Chastin Reed	Managing Member	1039 Bean Rock Road; Union Grove, AL 35175
Ashley Reed	Member	1039 Bean Rock Road; Union Grove, AL 35175

Other than the "Company/Permittee", identify the name of each corporation, partnership, association, and single proprietorship for which any individual identified above is or was an officer, general partner, LLP partner, LLC member, investor, director, or individual performing a function similar to a director, or principal (10% or more) stockholder, that had an Alabama NPDES permit at any time during the five year (60 month) period immediately preceding the date on which this form is signed (if this does not apply, then enter N/A after selecting "Manually Enter in Table"):

List of Corporations/Partnerships/etc, Names and Titles, as described in the instructions above, will be entered by:

Manually Entering in Table

Name of Corporation, Partnership, Association, or Single Proprietorship	Name of Individual	Title/Position in Corporation, Partnership, Association, or Single Proprietorship
None	N/A	N/A

**Additional Contacts (1 of 1)**

ADDITIONAL CONTACTS:

## Contact Type

NONE PROVIDED

## Contact

**First Name**

NONE PROVIDED

**Last Name**

NONE PROVIDED

**Title**

NONE PROVIDED

**Organization Name**

NONE PROVIDED

**Phone Type**

**Number**

**Extension**

NONE PROVIDED

**Email**

NONE PROVIDED

**Address**

[NO STREET ADDRESS SPECIFIED]

[NO CITY SPECIFIED], AL [NO ZIP CODE SPECIFIED]

## Compliance History

Has the applicant ever had any of the following:

Event	Apply?
An Alabama NPDES, SID, or UIC permit suspended or terminated	No
An Alabama or federal environmental permit suspended/terminated	No
An Alabama State Oil Gas Board permit or other approval suspended or terminated	No
An Alabama or federal performance/environmental bond, or similar security deposited in lieu of a bond, or portion thereof, forfeited	No

Has the applicant, parent corporation, subsidiary, general partner, LLP partner, or LLC Member had any Warning Letters, Notice of Violations (NOVs), Administrative Actions, or litigation filed by ADEM or EPA during the three year (36 month) period preceding the date on which this form is signed?

Yes

Identify every Warning Letter, Notice of Violation (NOV), Administrative Action, or litigation issued to the applicant, parent corporation, subsidiary, general partner, LLP partner, or LLC Member and filed by ADEM or EPA during the three year (36 month) period preceding the date on which this form is signed.

Date of Issuance	Type of Action	Briefly describe alleged violations:	Date of Final Resolution
08/29/2024	Warning Letter	Fugitive dust from equipment and roads/stockpiles.	09/23/2024

For this facility, list any other NPDES or other environmental permits (including permit numbers), authorizations, or certifications that have been applied for or issued within the State by ADEM, EPA, Alabama Department of Labor (ADOL), US Army Corp of Engineers (USACE), or other agency, to the applicant, parent corporation, subsidiary, or LLC member whether presently effective, expired, suspended, revoked, or terminated:

An air permit for this proposed site will also be submitted.

For other facilities, list any other NPDES or other ADEM permits (including permit numbers), authorizations, or certifications that have been applied for or issued within the State by ADEM, EPA, ASMC, ADOL, or USACE, to the applicant, parent corporation, subsidiary, or LLC member whether presently effective, expired, suspended, revoked, or terminated:

ALG891005 (Frogg Toggs Pit)

## Anti-Degradation Evaluation

Pursuant to ADEM Admin. Code ch. 335-6-10-.12(9), responses to the following questions must be provided by the applicant requesting NPDES permit coverage for new or expanded discharges of pollutant(s) to Tier 2 waters (except discharges eligible for coverage under general permits). As part of the permit application review process, the Department is required to consider, based on the applicant's demonstration, whether the proposed new or increased discharge to Tier 2 waters is necessary for important economic or social development in the area in which the waters are located. Do you have new or increased discharges?

Yes

## NOTE

---

If the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete questions below, ADEM Form 311-Alternatives Analysis, and either ADEM Form 312 or ADEM Form 313- Calculation of Total Annualized Project Costs (Public-Sector or Private-Sector Projects, whichever is applicable). ADEM Form 312 or ADEM Form 313, whichever is applicable, must be provided for each treatment discharge alternative considered technically viable.

[ADEM forms can be found on the Department's website here.](#)

### What environmental or public health problem will the discharger be correcting?

There is no public health problem related to the subject site. The discharge is not pertinent to correcting an environmental or public health problems.

### How much will the discharger be increasing employment (at its existing facility or as the result of locating a new facility)?

Reed Materials, LLC will be providing 10 new jobs to area residents.

### How much reduction in employment will the discharger be avoiding?

Reed Materials, LLC will be providing 10 new jobs to area residents.

### How much additional state or local taxes will the discharger be paying?

An estimated \$431,250 will be paid annually in state and local taxes.

### What public service to the community will the discharger be providing?

Reed Materials will supply crushed limestone products to be used for construction and farming activities in the community and surrounding areas.

### What economic or social benefit will the discharger be providing to the community?

Reed Materials will be providing local jobs and will be paying local and state taxes.

### Attach Form 311 (Alternative Analysis)

[Form 311 revised compiled.pdf - 03/03/2026 11:45 AM](#)

#### Comment

NONE PROVIDED

### Please attach Form 312 (Public Sector Projects) or Form 313 (Private Sector Projects).

[Form313 Annualized Project Costs \(1\).pdf - 11/11/2025 10:47 AM](#)

#### Comment

NONE PROVIDED

## Activity Description & Information

### Narrative description of activity(s):

The products to be mined will be limestone gravel. The mined limestone rock will be crushed, screened, washed, and stockpiled on-site. Water will be utilized for dust suppression. The water will be obtained by recycling and reusing surface water from washing and dust suppression along with water obtained from the local water utility. The limestone gravel will be transported by truck.

### Total Facility/Operations Area (acres)

118.00

### Total Disturbed Area (acres)

75.00

### Anticipated Commencement Date

03/01/2026

### Anticipated Completion Date

02/28/2031

Please identify which of the following apply to this operation:

Activity/Condition	Apply?
An existing facility/operation which currently results in discharges to State waters?	No
A proposed facility/operation which will result in a discharge to State waters?	Yes
Be located within any 100-year flood plain?	No
Discharge to Municipal Separate Storm Sewer?	No
Discharge to waters of or be located in the Coastal Zone?	No
Need/have ADEM UIC permit coverage?	No
Be located on Indian/historically significant lands?	No
Need/have ADEM SID permit coverage?	No
Need/have ASMC permit coverage?	No
Need/have State Oil & Gas Board permit coverage?	No
Need/have ADOL permit coverage?	No
Generate, treat, store, or dispose of hazardous or toxic waste?	No
Be located in or discharge to a Public Water Supply (PWS) watershed or be located within 1/4 mile of any PWS well?	No
Incised pit	No

**CORRECTION REQUEST (APPROVED)**

**Correct Incised Pit**

Incised pit shows "Yes" need to correct to show "No"  
Created on 2/26/2026 9:50 AM by **Robert Glover**

1 COMMENT

**Jennifer Parrish (dparrish@teamues.com) (2/26/2026 9:55 AM)**  
revised to reflect it will not be an incised pit

Does your facility/operation use cooling water?

No

**Material to be Removed, Processed, or Transloaded**

Material To Be Removed, Processed, Or Transloaded (Note: Sum must equal 100.)

Mineral(s)/Mineral product(s)	%
Limestone, crushed limestone and dolomite	100
	Sum: 100

**Proposed Activity To Be Conducted**

Type(s) of activity presently conducted at applicant's existing facility or proposed to be conducted at facility (Select Yes or No):

Activity	Apply?
Adjacent/associated asphalt/concrete plant(s)	No
Alternative fuels operation	No
Auger mining	No
Cement production	No
Chemical processing or leaching	No
Chemicals used in process or wastewater treatment (coagulant, biocide, etc.)	No
Construction related temporary borrow pits/areas	No
Creek/stream crossings	No
Dredging	No

Activity	Apply?
Excavation	Yes
Grading, clearing, grubbing, etc.	Yes
Hydraulic mining	No
Hydraulic mining, dredging, instream or between stream-bank mining	No
Lime production	No
Low volume sewage treatment package plant	No
Mineral dry processing (crushing & screening)	Yes
Mineral loading	Yes
Mineral storing	Yes
Mineral transportation	Yes
Mineral wet preparation	Yes
Onsite construction debris or equipment storage/disposal	Yes
Onsite mining debris or equipment storage/disposal	Yes
Other beneficiation & manufacturing operations	No
Pre-construction ponded water removal	No
Pre-mining logging or land clearing	Yes
Preparation plant waste recovery	Yes
Quarrying	Yes
Reclamation of disturbed areas	Yes
Solution mining	No
Surface mining	Yes
Synthetic fuel production	No
Underground mining	No
Waterbody relocation or other alteration	No
Within-bank mining	No

If the operation will include activities other than those listed above, please describe them below:

None

If the type of activity presently conducted or proposed is Mineral Transportation, please indicate which of the following apply:

Method	Apply?
Barge	No
Rail	No
Truck	Yes

### Fuel - Chemical Handling, Storage, & Spill Prevention Control & Countermeasures (SPCC) Plan

Will fuels, chemicals, compounds, or liquid waste be used or stored onsite?

Yes

Please identify the fuel, chemicals, compounds, or liquid waste and indicate the volume of each:

Volume (gallons)	Contents
12,000.0	Off Road Diesel Fuel
2,000.0	Waste Oil
55.0	Hydraulic Fluid
375.0	Diesel Exhaust Fluid

## SPCC Plan

[25-0907 Reed Project New Road SPCC revised 02.26.26.pdf - 02/26/2026 10:49 AM](#)

### Comment

NONE PROVIDED

## ASMC Regulated Entities

### Is this a coal mining operation regulated by ASMC?

No

## Topographic Map Submittal

### Topographic Map

Attach to this application a 7.5 minute series U.S.G.S. topographic map(s) or equivalent map(s) no larger than, or folded to a size of 8.5 by 11 inches (several pages may be necessary), of the area extending to at least one mile beyond property boundaries. The topographic or equivalent map(s) must include a caption indicating the name of the topographic map, name of the applicant, facility name, county, and township, range, & section(s) where the facility are located. Unless approved in advance by the Department, the topographic or equivalent map(s), at a minimum, must show: a) An accurate outline of the area to be covered by the permit (b) An outline of the facility (c) All existing and proposed disturbed areas (d) Location of intake and discharge areas (e) Proposed and existing discharge points (f) Perennial, intermittent, and ephemeral streams (g) Lakes, springs, water wells, wetlands (h) All known facility dirt/improved access/haul roads (i) All surrounding unimproved/improved roads (j) High-tension power lines and railroad tracks (k) Contour lines, township-range-section lines (l) Drainage patterns, swales, washes (m) All drainage conveyance/treatment structures (ditches, berms, etc.) (n) Any other pertinent or significant feature.

### Topographic Map

[25-0907 Project New Road Site Location Map Figure 1.pdf - 02/19/2026 01:20 PM](#)

[25-0907 Project New Road Site Detail Map Figure 2.pdf - 02/19/2026 02:44 PM](#)

### Comment

NONE PROVIDED

## Detailed Facility Map Submittal

### Detailed Facility Map

[25-028 Reed Materials Guntersville Quarry 12.18.25.pdf - 12/19/2025 08:15 AM](#)

### Comment

NONE PROVIDED

## Outfalls (1 of 3)

**Outfall Identifier: 001**

### Feature Type

Outfall (External)

### Outfall Identifier

001

### Outfall Status

Proposed

Please be aware that you should only mark an outfall status as existing if (1) the Department has been previously notified that it was constructed as proposed or (2) it began discharge prior to this application. A proposed outfall is one that is being newly added to the permit OR one that has never discharged or has never been authorized by the Department to discharge. Should you have any questions about which status to select, please contact the Department's permit engineer for this site.

**Receiving Water**

Browns Creek

**Check below if the discharge enters the receiving water via an unnamed tributary.**

Unnamed Tributary

**Location of Outfall**

34.2721,-86.4141

**303(d) Segment?**

No

**TMDL Segment?**

No

**Outfalls (2 of 3)****Outfall Identifier: 002****Feature Type**

Outfall (External)

**Outfall Identifier**

002

**Outfall Status**

Proposed

Please be aware that you should only mark an outfall status as existing if (1) the Department has been previously notified that it was constructed as proposed or (2) it began discharge prior to this application. A proposed outfall is one that is being newly added to the permit OR one that has never discharged or has never been authorized by the Department to discharge. Should you have any questions about which status to select, please contact the Department's permit engineer for this site.

**Receiving Water**

Browns Creek

**Check below if the discharge enters the receiving water via an unnamed tributary.**

Unnamed Tributary

**Location of Outfall**

34.2736,-86.4165

**303(d) Segment?**

No

**TMDL Segment?**

No

**Outfalls (3 of 3)****Outfall Identifier: 003****Feature Type**

Outfall (External)

**Outfall Identifier**

003

**Outfall Status**  
Proposed

Please be aware that you should only mark an outfall status as existing if (1) the Department has been previously notified that it was constructed as proposed or (2) it began discharge prior to this application. A proposed outfall is one that is being newly added to the permit OR one that has never discharged or has never been authorized by the Department to discharge. Should you have any questions about which status to select, please contact the Department's permit engineer for this site.

**Receiving Water**  
Shiloh Branch

**Check below if the discharge enters the receiving water via an unnamed tributary.**  
Unnamed Tributary

**Location of Outfall**  
34.2687,-86.4206

**303(d) Segment?**  
No

**TMDL Segment?**  
No

**Discharge Characterization**

**EPA Form 2C, EPA Form 2D, and/or ADEM Form 567 Submittal**

Yes, pursuant to 40 CFR 122.21, the applicant requests a waiver for completion of EPA Form 2C, EPA Form 2D, and ADEM Form 567 and certifies that the operating facility will discharge treated stormwater only; that chemical/compound additives are not used (unless waived in writing by the Department on a programmatic, categorical, or individual compound/chemical basis); that there are no process, manufacturing, or other industrial operations or wastewaters, including but not limited to lime or cement production and synfuel operations; and that coal and coal products are not mined nor stored onsite.

Please download the following Excel file to enter your information. Once complete, please attach to the below control.  
[Download spreadsheet here.](#)

**Required attachment:**

Form315TableB.pdf - 12/18/2025 01:34 PM

**Comment**

NONE PROVIDED

Please download the following Excel file to enter your information. Once complete, please attach to the below control.  
[Download spreadsheet here.](#)

**Required attachment:**

Form315TableC.pdf - 12/18/2025 01:37 PM

**Comment**

NONE PROVIDED

**Discharge Structure Description & Pollutant Source**

Please download the following Excel file to enter your information. Once complete, please attach to the below control.  
[Download spreadsheet here.](#)

**Required attachment:**

Form315DischargeStructure.pdf - 12/18/2025 05:44 PM

**Comment**

NONE PROVIDED

## Variance Request

Do you intend to request or renew one or more of the CWA technology variances authorized at 40 CFR 122.21(m)?  
No

## Pollution Abatement & Prevention (PAP) Plan Summary (1 of 1)

### Outfall(s):

001, 002, and 003

Outfall Questions:	Please select one:
Runoff from all areas of disturbance is controlled	Yes
Drainage from pit area, stockpiles, and spoil areas directed to a sedimentation pond	Yes
Sedimentation basin at least 0.25 acre/feet for every acre of disturbed drainage	Yes
Sedimentation basin cleaned out when sediment accumulation is 60% of design capacity	Yes
Trees, boulders, and other obstructions removed from pond during initial construction	Yes
Width of top of dam greater than 12'	No
Side slopes of dam no steeper than 3:1	Yes
Cutoff trench at least 8' wide	N/A
Side slopes of cutoff trench no less than 1:1	N/A
Cutoff trench located along the centerline of the dam	N/A
Cutoff trench extends at least 2' into bedrock or impervious soil	N/A
Cutoff trench filled with impervious material	N/A
Embankments and cutoff trench 95% compaction standard proctor ASTM	Yes
Embankment free of roots, tree debris, stones >6" diameter, etc.	Yes
Embankment constructed in lifts no greater than 12"	Yes
Spillpipe sized to carry peak flow from a one year storm event	Yes
Spillpipe will not chemically react with effluent	Yes
Subsurface withdrawal	Yes
Anti-seep collars extend radially at least 2' from each joint in spillpipe	Yes
Splashpad at the end of the spillpipe	Yes
Emergency Spillway sized for peak flow from 25-yr 24-hr event if discharge not into PWS classified stream	Yes
Emergency spillway sized for peak flow from 50-yr 24-hr event if discharge is into PWS classified stream	N/A
Emergency overflow at least 20' long	Yes
Side slopes of emergency spillway no steeper than 2:1	Yes
Emergency spillway lined with riprap or concrete	Yes
Minimum of 1.5' of freeboard between normal overflow and emergency overflow	Yes
Minimum of 1.5' of freeboard between max. design flow of emergency spillway and top of dam	Yes
All emergency overflows are sized to handle entire drainage area for ponds in series	N/A
Dam stabilized with permanent vegetation	Yes
Sustained grade of haul road <10%	Yes
Maximum grade of haul road <15% for no more than 300'	Yes
Outer slopes of haul road no steeper than 2:1	Yes
Outer slopes of haul road vegetated or otherwise stabilized	Yes
Detail drawings supplied for all stream crossings	N/A
Short-Term Stabilization/Grading And Temporary Vegetative Cover Plans	Yes
Long-Term Stabilization/Grading And Permanent Reclamation or Water Quality Remediation Plans	Yes

**Identify and provide detailed explanation for any "N" or "N/A" response(s):**

According to the prepared designs, the width of the dam will be 10-ft wide.

Discharge is not into a PWS stream.

There is no cutoff trench.

No ponds in series

There will be no stream crossings.

**Pollution Abatement & Prevention (PAP) Plan Review Checklist**

<b>General Information:</b>	<b>Please select one:</b>
PE Seal with License #	Yes
Name and Address of Operator	Yes
Legal Description of Facility	Yes
Name of Company	Yes
Number of Employees	Yes
Products to be Mined	Yes
Hours of Operation	Yes
Water Supply and Disposition	Yes

<b>Maps:</b>	<b>Please select one:</b>
Topographic Map including Information from Part XIII (a) (o) of this Application	Yes
1" = 500' or Equivalent Facility Map including Information from Part XIV of this Application	Yes

<b>Detailed Design Diagrams:</b>	<b>Please select one:</b>
Plan Views	Yes
Cross-section Views	Yes
Method of Diverting Runoff to Treatment Basins	Yes
Line Drawing of Water Flow through Facility with Water Balance or Pictorial Description of Water Flow	Yes

<b>Narrative of Operations:</b>	<b>Please select one:</b>
Raw Materials Defined	Yes
Processes Defined	Yes
Products Defined	Yes

<b>Schematic Diagram:</b>	<b>Please select one:</b>
Points of Waste Origin	Yes
Collection System	Yes
Disposal System	Yes

<b>Post Treatment Quantity and Quality of Effluent:</b>	<b>Please select one:</b>
Flow	Yes
Suspended Solids	Yes
Iron Concentration	N/A
pH	Yes

**Identify and provide detailed explanation for any "N" or "N/A" response(s):**

Iron is not believed to be a pollutant of concern when quarrying limestone.

<b>Description of Waste Treatment Facility:</b>	<b>Please select one:</b>
Pre-Treatment Measures	Yes

Description of Waste Treatment Facility:	Please select one:
Recovery System	Yes
Expected Life of Treatment Basin	Yes
Measures for Ensuring Access to All Treatment Structures and Related Appurtenances including Outfall Locations	Yes
Schedule of Cleaning and/or Abandonment	Yes

Other:	Please select one:
Precipitation/Volume Calculations/Diagram Attached	Yes
BMP Plan for Haul Roads	Yes
Measures for Minimizing Impacts to Adjacent Stream (e.g., Buffer Strips, Berms)	Yes
Measures for Ensuring Appropriate Setbacks are Maintained at All Times	Yes
Methods for Minimizing Nonpoint Source Discharges	Yes
If Chemical Treatment Used, Methods for Ensuring Appropriate Dosage	N/A
Facility Closure Plans	Yes
PE Rationale(s) For Alternate Standards, Designs or Plans	N/A

**Identify and provide detailed explanation for any "N" or "N/A" response(s):**

There will be no chemical treatment of the effluent.  
There are no plans for alternate standards, designs or plans at this time.

**Pollution Abatement & Prevention (PAP) Plan**

**Is this a coal mining operation regulated by ASMC?**

No

**For non-coal mining facilities, has a PAP Plan in accordance with ADEM Admin. Code r. 335-6-9-.03 been completed?**

Yes

**PAP Plan (non-coal mining facilities)**

[25-0907 PAP 02.26.2026 compiled and signed.pdf - 02/26/2026 10:32 AM](#)

**Comment**

NONE PROVIDED

**Professional Engineer (PE)**

**Registration License Number**

23588

## Professional Engineer

**Prefix**

Mr.

**First Name      Last Name**

Keith              Kaylor

**Title**

Senior Environmental Engineer

**Organization Name**

UES, LLC

**Phone Type    Number            Extension**

Business        256-837-6708

**Email**

kkaylor@teamues.com

**Address**

7201 Opportunity Blvd  
Huntsville, AL 35810

## Information for the Applicant

### Please read the following information and acknowledge below:

Contact the Department prior to submittal with any questions or to request acceptable alternate content/format.

Be advised that you are not authorized to commence regulated activity until this application can be processed, publicly noticed, and approval to proceed is received in writing from the Department.

EPA Form(s) 1 and 2F need not be submitted unless specifically required by the Department. EPA Form(s) 2C and/or 2D are required to be submitted unless the applicant is eligible for a waiver and the Department grants a waiver, or unless the relevant information required by EPA Form(s) 2C and/or 2D are submitted to the Department in an alternative format acceptable to the Department.

Planned/proposed mining sites that are greater than 5 acres, that mine/process coal or metallic mineral/ore, or that have wet or chemical processing, must apply for and obtain coverage under an Individual or General NPDES Permit prior to commencement of any land disturbance. Such Individual NPDES Permit coverage may be requested via this ADEM Form 315.

The applicant is advised to contact:

- (1) The Alabama Surface Mining Commission (ASMC) if coal, coal fines, coal refuse, or other coal related materials are mined, transloaded, processed, etc.;
- (2) The Alabama Department of Labor (ADOL) if conducting non-coal mining operations;
- (3) The Alabama Historical Commission for requirements related to any potential historic or culturally significant sites;
- (4) The Alabama Department of Conservation and Natural Resources (ADCNR) for requirements related to potential presence of threatened/endangered species;
- (5) The US Army Corps of Engineers, Mobile or Nashville Districts, if this project could cause fill to be placed in federal waters or could interfere with navigation.

The Department must be in receipt of a completed version of this form, including any supporting documentation, and the appropriate processing fee [including Greenfield Fee and Biomonitoring & Toxicity Limits fee(s), if applicable], prior to development of a draft NPDES permit.

### Acknowledgement

I acknowledge I have read and understand the information above.

## Additional Attachments

**Additional Attachments**

NONE PROVIDED

**Comment**

NONE PROVIDED

## Application Preparer

## Application Preparer

**Prefix**

Ms.

**First Name      Last Name**

Darby              Parrish

**Title**

Environmental Scientist

**Organization Name**

UES, LLC

**Phone Type    Number            Extension**

Business        256-837-6708

**Email**

dparrish@teamues.com

**Address**

7201 Opportunity Blvd

Huntsville, AL 35810

## Fees Assessed

The following itemized fees have been assessed in accordance with Fee Schedule D and 335-1-6-.04(a) of ADEM Admin. Code Division 1 regulations based on the information provided in this application.

**Wet Preparation, Processing, Beneficiation:**

6860

**Greenfield Site Fee:**

1610

## Fee

**Fee**

8470

## Revisions

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Revision	Revision Date	Revision By
Revision 1	11/11/2025 10:38 AM	Jennifer Parrish
Revision 2	2/19/2026 1:07 PM	Jennifer Parrish
Revision 3	2/26/2026 9:54 AM	Jennifer Parrish
Revision 4	3/3/2026 11:19 AM	Jennifer Parrish

# Agreements and Signature(s)

## SUBMISSION AGREEMENTS

- I am the owner of the account used to perform the electronic submission and signature.
- I have the authority to submit the data on behalf of the facility I am representing.
- I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

### Professional Engineer

*A detailed, comprehensive Pollution Abatement & Prevention (PAP) Plan must be prepared, signed, and certified by a professional engineer (PE), registered in the State of Alabama, and the PE must certify as follows: I certify on behalf of the applicant, that I have completed an evaluation of discharge alternatives for any proposed new or increased discharges of pollutant(s) to Tier 2 waters and reached the conclusions indicated. I certify under penalty of law that technical information and data contained in this application, and a comprehensive PAP Plan including any attached SPCC plan, maps, engineering designs, etc. acceptable to ADEM, for the prevention and minimization of all sources of pollution in stormwater and authorized related process wastewater runoff has been prepared under my supervision for this facility utilizing effective, good engineering and pollution control practices and in accordance with the provisions of ADEM Admin. Code Division 335-6, including Chapter 335-6-9 and Appendices A & B. If the PAP Plan is properly implemented and maintained by the Permittee, discharges of pollutants can reasonably be expected to be effectively minimized to the maximum extent practicable and according to permit discharge limitations and other permit requirements. The applicant has been advised that appropriate pollution abatement/prevention facilities and structural & nonstructural management practices or Department approved equivalent management practices as detailed in the PAP Plan must be fully implemented and regularly maintained as needed at the facility in accordance with good sediment, erosion, and other pollution control practices, permit requirements, and other ADEM requirements to ensure protection of groundwater and surface water quality.*

**Signed By** Keith Kaylor on 03/03/2026 at 12:21 PM

### Responsible Official

*This application must be signed and initialed by a Responsible Official of the applicant pursuant to ADEM Admin. Code Rule 335-6-6-.09 who has overall responsibility for the operation of the facility. I certify under penalty of law that this document, including technical information and data, the PAP Plan, including any SPCC plan, maps, engineering designs, and all other attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the PE and other person or persons under my supervision who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. A comprehensive PAP Plan to prevent and minimize discharges of pollution to the maximum extent practicable has been prepared at my direction by a PE for this facility utilizing effective, good engineering and pollution control practices and in accordance with the provisions of ADEM Admin. Code Division 335-6, including Chapter 335-6-9 and Appendices A & B, and information contained in this application, including any attachments. I understand that regular inspections must be performed by, or under the direct supervision of, a PE and all appropriate pollution abatement/prevention facilities and structural & nonstructural management practices or Department approved equivalent management practices identified by the PE must be fully implemented prior to and concurrent with commencement of regulated activities and regularly maintained as needed at the facility in accordance with good sediment, erosion, and other pollution control practices and ADEM requirements. I understand that the PAP Plan must be fully implemented and regularly maintained so that discharges of pollutants can reasonably be expected to be effectively minimized to the maximum extent practicable and according to permit discharge limitations and other requirements to ensure protection of groundwater and surface water quality. I understand that failure to fully implement and regularly maintain required management practices for the protection of groundwater and surface water quality may subject the Permittee to appropriate enforcement action. I certify that this form has not been altered, and if copied or reproduced, is consistent in format and identical in content to the ADEM approved form. I further certify that the discharges described in this application have been tested or evaluated for the presence of non-stormwater discharges and any non-mining associated beneficiation/process pollutants and wastewaters have been fully identified. I acknowledge my understanding that if coal, coal fines, coal refuse, or other coal related materials are mined, transloaded, processed, etc., that I may be required to obtain a permit from the ASMC. I acknowledge my understanding that if non-coal, non-limestone materials are mined, transloaded, processed, etc., that I may be required to obtain a permit from the ADOL. I acknowledge my understanding that if the proposed activities will be conducted in or potentially impact waters of the state or waters of the US (including wetlands), that I may be required to obtain a permit from the USACE.*

**Signed By** Chastin Reed on 03/03/2026 at 1:33 PM

# Attachment 1 to Supplementary Form ADEM Form 311

## *Alternatives Analysis*

*Applicant/Project:* Reed Materials - Project New Road

All new or expanded discharges (except discharges eligible for coverage under general permits) covered by the NPDES permitting program are subject to the provisions of ADEM's antidegradation policy. Applicants for such discharges to Tier 2 waters are required to demonstrate " . . . that the proposed discharge is necessary for important economic or social development." As a part of this demonstration, the applicant must complete an evaluation of the discharge alternatives listed below, including a calculation of the total annualized project costs for each technically feasible alternative (using ADEM Form 312 for public-sector projects and ADEM Form 313 for private-sector projects). Alternatives with total annualized project costs that are less than 110% of the total annualized project costs for the Tier 2 discharge proposal are considered viable alternatives.

Alternative	Viable	Non-Viable	Comment
1 Land Application		X	See attachment
2 Pretreatment/Discharge to POTW		X	See attachment
3 Relocation of Discharge		X	See attachment
4 Reuse/Recycle	X		
5 Process/Treatment Alternatives		X	See attachment
6 On-site/Sub-surface Disposal	X		
<i>(other project-specific alternatives considered by the applicant; attach additional sheets if necessary)</i>			
7			
8			
9			

<p><i>Pursuant to ADEM Administrative Code Rule 335-6-3-.04, I certify on behalf of the applicant that I have completed an evaluation of the discharge alternatives identified above, and reached the conclusions indicated.</i></p>	<p style="text-align: right;"><i>Signature:</i> _____ <span style="margin-left: 150px;"><i>(Professional Engineer)</i></span></p> <p style="text-align: right;"><i>Date:</i> _____</p>
--	--

*(Supporting documentation to be attached, referenced, or otherwise handled as appropriate.)*

1. Land Application **is not a viable** option due to the increased costs associated with the design, construction, operation, and maintenance of a pumping and spraying system. Once mining operations begin, the area of the pit and the quantity of captured stormwater will increase, while the available area for land application will be reduced.
2. Pretreatment of discharge to a Publicly Owned Treatment Works (POTW) **is not a viable option** due to the absence of an available POTW within a reasonable distance from the proposed facility. The nearest treatment facilities, Eastlake Waste Water Treatment Plant (operated by the Guntersville Water and Sewer Board) and Gilliam Creek Waste Water Treatment Plant (operated by the Arab Sewer Board) are approximately ten miles from the site.
3. Relocation of discharges from the proposed facility **is not a viable option** because the proposed facility will construct three sediment basins at natural low points within each drainage basin.
5. Due to the nature of the mining activity, there are **no viable process alternatives**. Treatment alternatives planned for the site are based on the Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas, as well as accepted industry practices as designed by a Professional Engineer in the state of Alabama.

**Calculation of Total Annualized Project Costs  
for Private-Sector Projects**

Capital Costs to be Financed (Supplied by applicant)	<u>\$ 500,000 (1)</u>
Interest rate for Financing (Expressed as a decimal)	<u>0.0575 (i)</u>
Time Period of Financing (Assume 10 years*)	<u>10 years (n)</u>
Annualization Factor = $\frac{i}{(1+i)^{10} - 1} + i$	<u>0.1344 (2)</u>
Annualized Capital Cost [Calculate: (1) x (2) ]	<u>\$ 67,200 (3)</u>
Annual Cost of Operation and Maintenance (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement)**	<u>\$ 40,000 (4)</u>
<b>Total Annual Cost of Pollution Control Project [ (3) + (4) ]</b>	<b><span style="border: 1px solid black; padding: 2px;">\$ 107,200 (5)</span></b>

\* While actual payback schedules may differ across projects and companies, assume equal annual payments over a 10-year period for consistency in comparing projects.

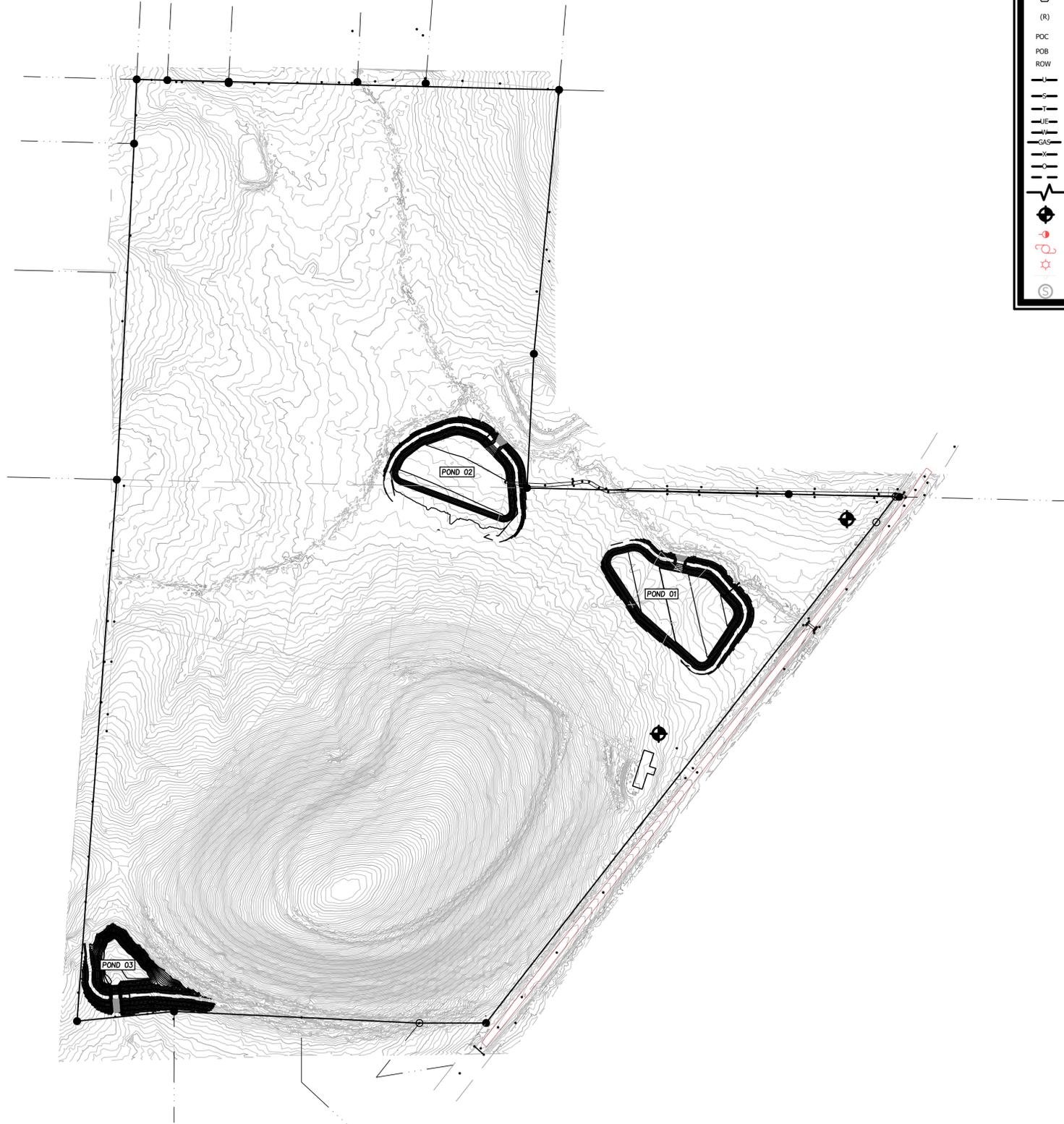
\*\* For recurring costs that occur less frequently than once a year, pro rate the cost over the relevant number of years (e.g., for pumps replaced once every three years, include one-third of the cost in each year).





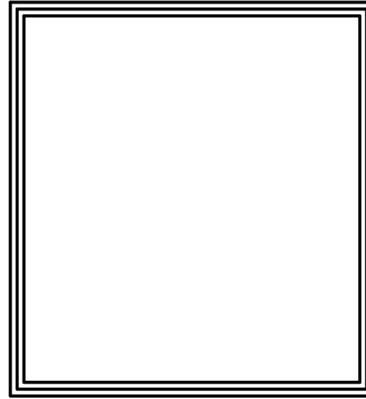


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**LEGEND**

	NAIL AND TWO INCH DIAMETER ALUMINUM DISC SET STAMPED ALLEN PLS 31826		MAILBOX
	IRON/MONUMENT FOUND AND TYPE		HANDICAP PARKING
	1 INCH DIAMETER REBAR SET WITH RED CAP STAMPED ALLEN CA-1005-LS		STOP SIGN
	CALCULATED POINT		A/C UNIT
	RECORD (BEARING, DISTANCE, ANGLE, OR DESCRIPTION)		CLEANOUT
	POINT OF COMMENCEMENT		GRATE INLET
	POINT OF BEGINNING		CURB INLET
	RIGHT OF WAY		DRAINAGE MANHOLE
	OVERHEAD ELECTRIC, TELEPHONE, AND OR CABLE (TV)		ELECTRICAL TRANSFORMER
	SANITARY SEWER LINE		ELECTRIC METER
	UNDERGROUND TELEPHONE / FIBER LINE		GAS METER
	UNDERGROUND ELECTRIC		GAS VALVE
	UNDERGROUND WATER LINE		WATER VALVE
	UNDERGROUND GAS LINE		IRRIGATION CONTROL VALVE
	EXISTING WIRE FENCE		FINISHED FLOOR ELEVATION
	EXISTING CHAIN-LINK FENCE		TELEPHONE MANHOLE
	EXISTING WOOD / VINYL FENCE		TELEPHONE PEDESTAL
	LINE NOT TO SCALE		WATER METER
	TBM (TEMPORARY BENCHMARK)		FIRE HYDRANT
	GUY WIRE		
	UTILITY POLE		
	LIGHT POLE		
	SIGN		
	SEWER MANHOLE		



SURVEY PROVIDED BY:

**ALLEN LAND SURVEYING, LLC**  
201 COUNTY ROAD 1859 ARAB, AL. 35016  
1-256-640-3516

REVISIONS:

OVERALL SEDIMENTATION POND PLAN

**REED MATERIALS GUNTERSVILLE**  
GUNTERSVILLE, ALABAMA

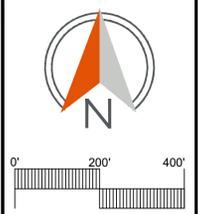


8624 MEMORIAL PARKWAY SW  
HUNTSVILLE, ALABAMA 35802  
PHONE: 256.539.9429  
EMAIL: INFO@2thepointinc.com

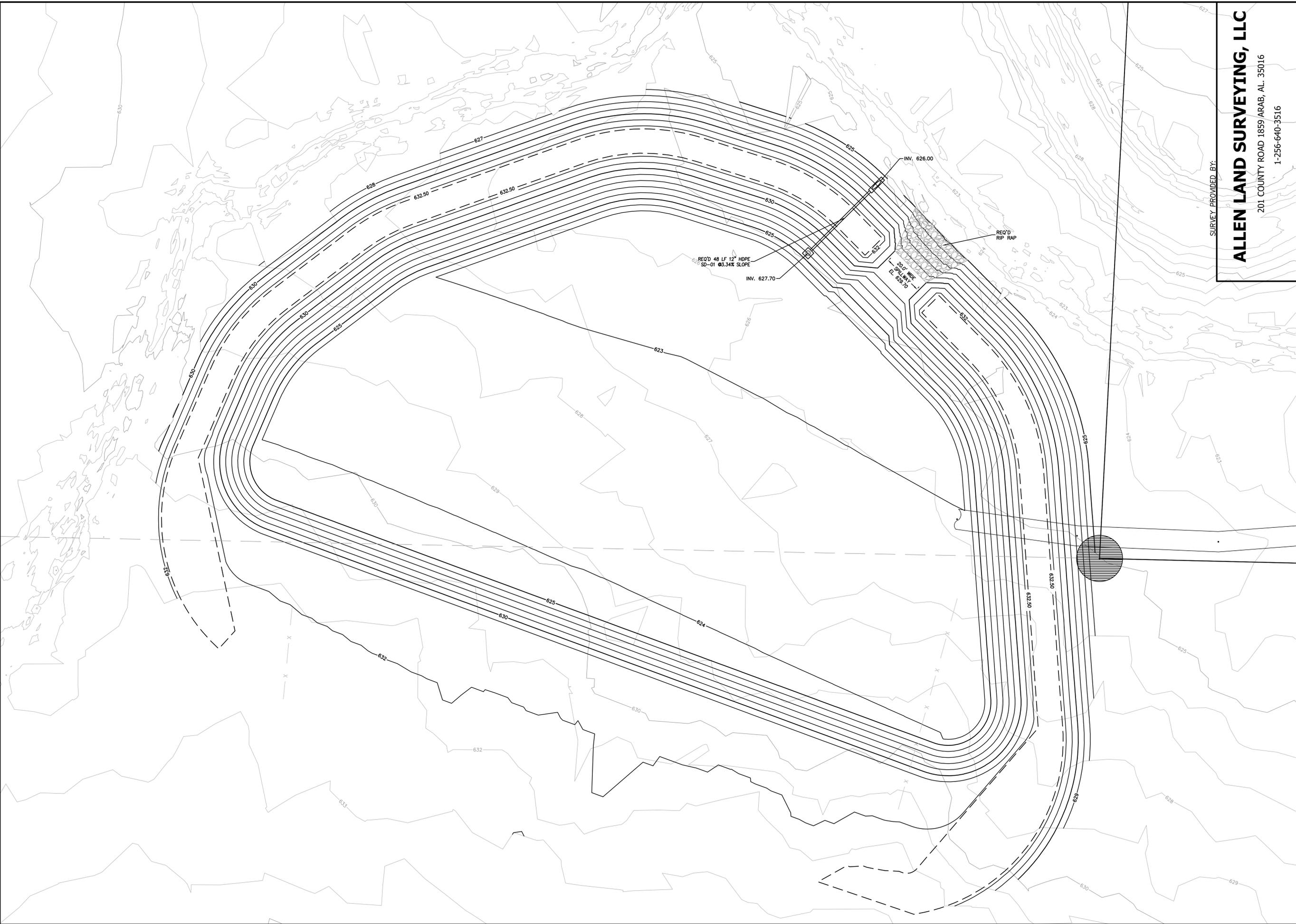
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1 OF 5

JOB NO: 21-429 OFFICE DATE: 12/18/25



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201 COUNTY ROAD 1859 ARAB, AL. 35016

1-256-640-3516

REVISIONS:

SEDIMENTATION POND 01 PLAN

**REED MATERIALS GUNTERSVILLE**  
GUNTERSVILLE, ALABAMA



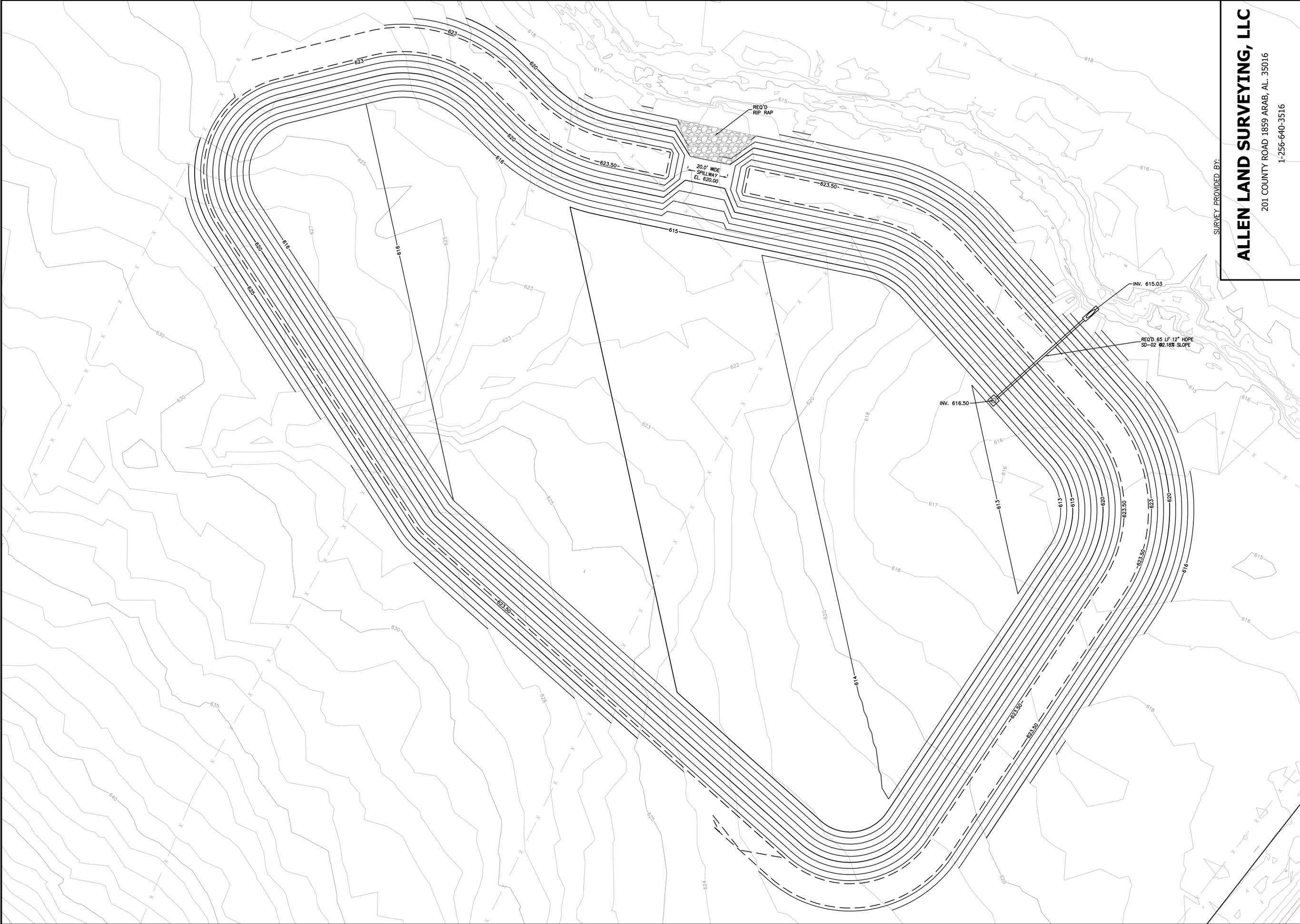
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PHONE: 256.639.9428  
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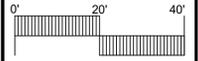
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201 COUNTY ROAD 1859 ARAB, AL. 35016

1-256-640-3516

REVISIONS:



SEDIMENTATION POND 02 PLAN

**REED MATERIALS GUNTERSVILLE**  
GUNTERSVILLE, ALABAMA



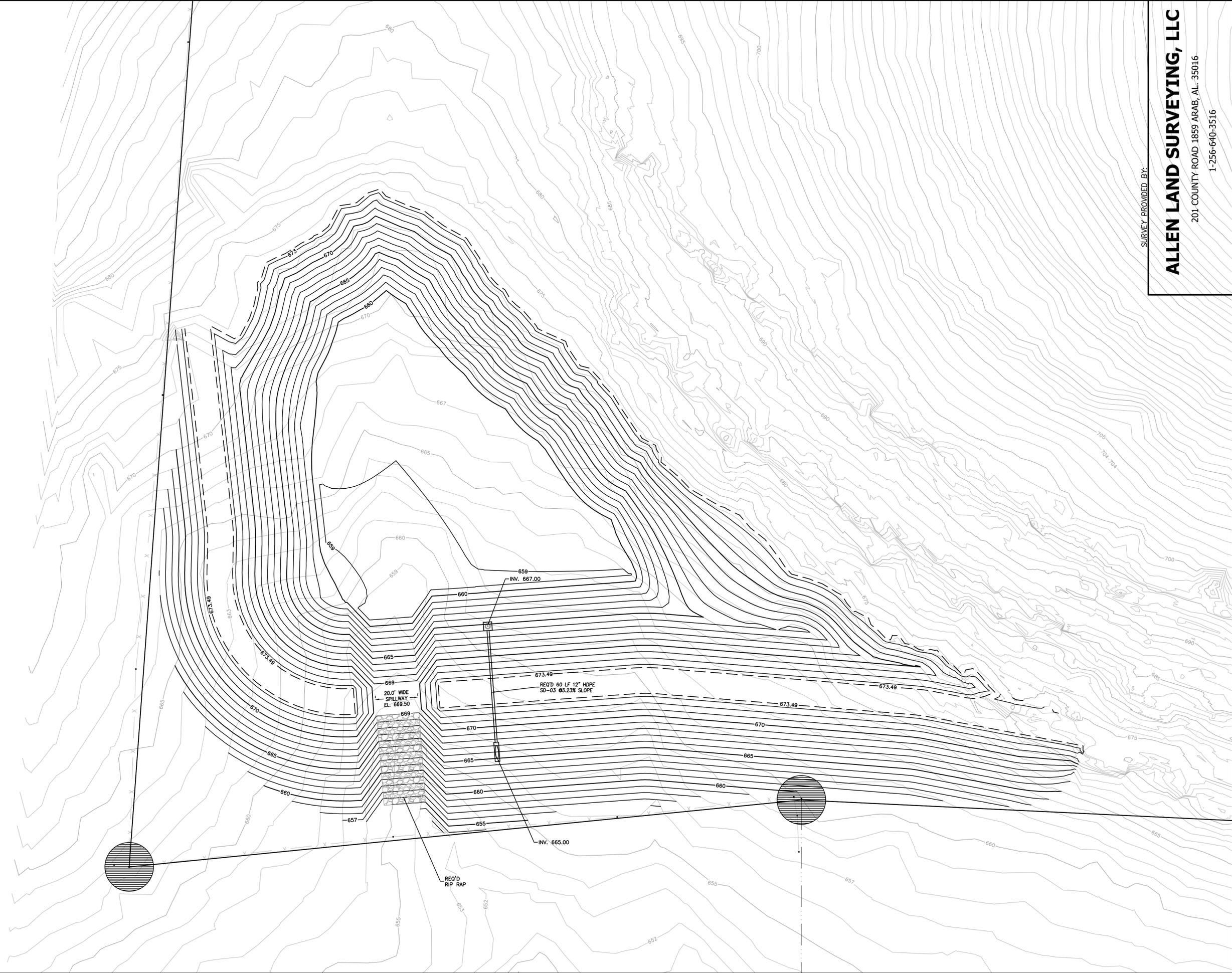
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**3** OF **5**

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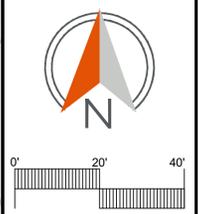
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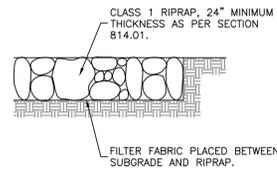
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GUNTERSVILLE, ALABAMA



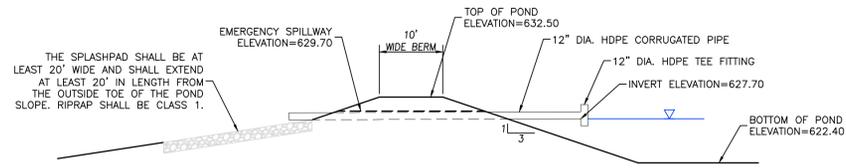
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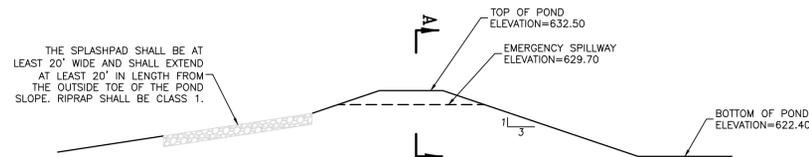
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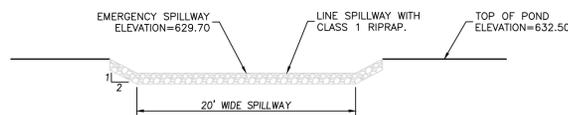
**SPILLWAY CROSS SECTION THROUGH BERM**

- NOTES:
1. FILTER FABRIC SHALL BE PLACED BETWEEN SUBGRADE AND RIPRAP.
  2. AREA FOR POND SHALL BE CLEARED AND GRUBBED PRIOR TO EXCAVATING POND, AND ANY ORGANIC OR OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED FROM THE FOOTPRINT OF THE POND.
  3. ALL SUITABLE MATERIAL EXCAVATED FROM THE POND MAY BE USED TO CONSTRUCT THE PERIMETER AND ANY BERM SWALE COMBINATION TO DELIVER STORM WATER TO THE POND AS NECESSARY.
  4. IF EMBANKMENT FILL IS REQUIRED TO CONSTRUCT POND, FILL SHALL CONSIST OF COHESIVE SOIL, PLACED IN 6 INCH LOOSE LIFTS, AND COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR (ASTM 898). FILL MATERIAL SHALL BE FREE OF ORGANIC MATERIALS INCLUDING ROOTS AND TREE DEBRIS, AND STONES GREATER THAN 6 INCHES IN DIAMETER.
  5. ANTI-SLEEP COLLARS SHALL BE PLACED AT ALL JOINTS IN SPILL PIPE AND SHALL EXTEND 2 FOOT RADially FROM THE JOINT. ALL CONNECTIONS SHALL BE WATER TIGHT.

**SPILLPIPE DETAIL**  
NOT TO SCALE



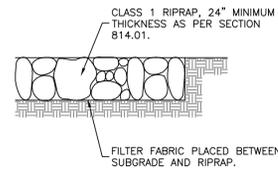
**SPILLWAY CROSS SECTION THROUGH BERM**



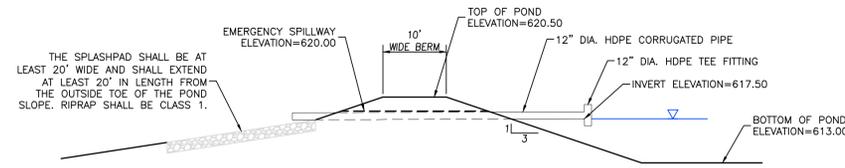
**SECTION A-A**

**EMERGENCY SPILLWAY DETAIL**  
NOT TO SCALE

**POND 01**

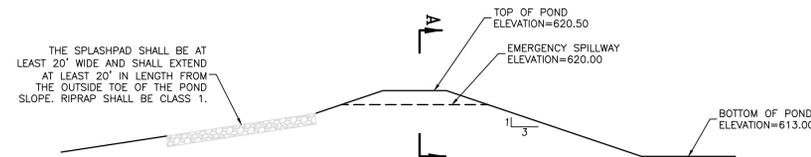


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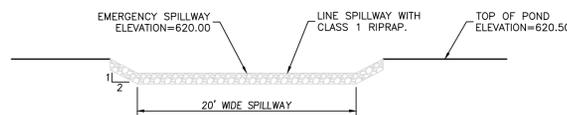


**SPILLWAY CROSS SECTION THROUGH BERM**

**SPILLPIPE DETAIL**  
NOT TO SCALE



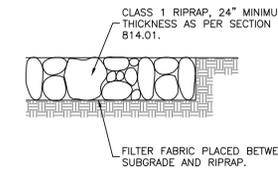
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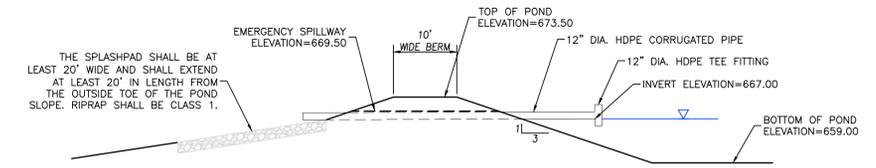
**SECTION A-A**

**EMERGENCY SPILLWAY DETAIL**  
NOT TO SCALE

**POND 02**

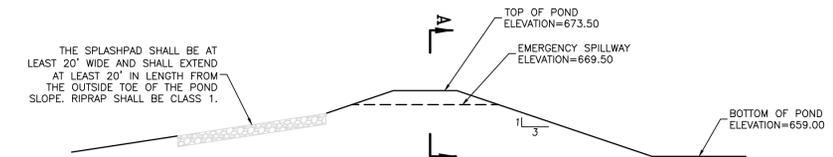


**RIPRAP DETAIL**  
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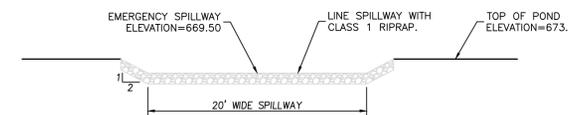


**SPILLWAY CROSS SECTION THROUGH BERM**

**SPILLPIPE DETAIL**  
NOT TO SCALE



**SPILLWAY CROSS SECTION THROUGH BERM**



**SECTION A-A**

**EMERGENCY SPILLWAY DETAIL**  
NOT TO SCALE

**POND 03**

REVISIONS:

POND STRUCTURE DETAILS

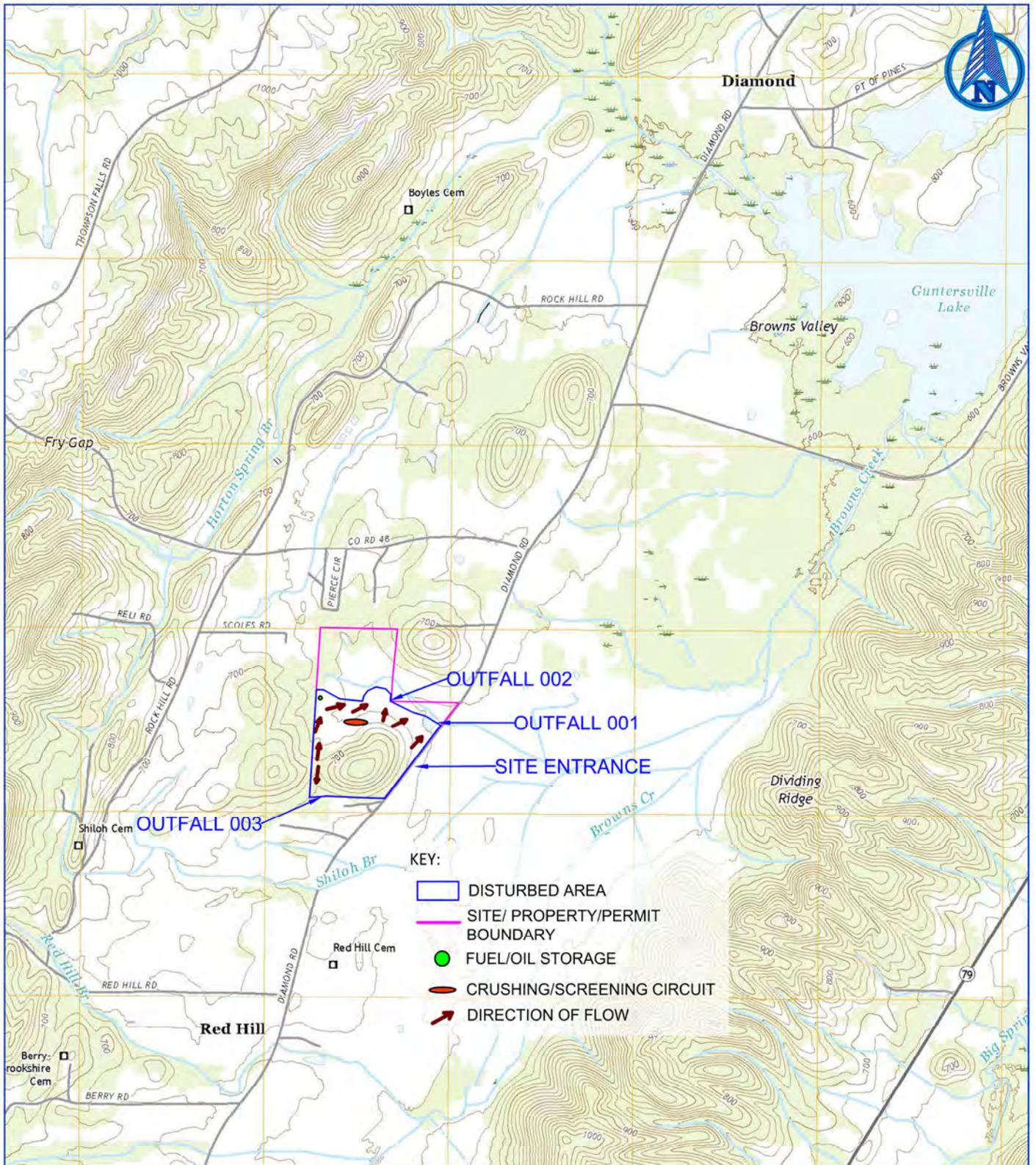
**REED MATERIALS GUNTERSVILLE**  
GUNTERSVILLE, ALABAMA



8624 MEMORIAL PARKWAY SW  
HUNTSVILLE, ALABAMA 35802  
PHONE: 256.639.9429  
EMAIL: INFO@2thepointinc.com

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PROJECT NEW ROAD  
 REED MATERIALS  
 GUNTERSVILLE, ALABAMA

SITE DETAIL MAP



Universal Engineering Sciences, LLC

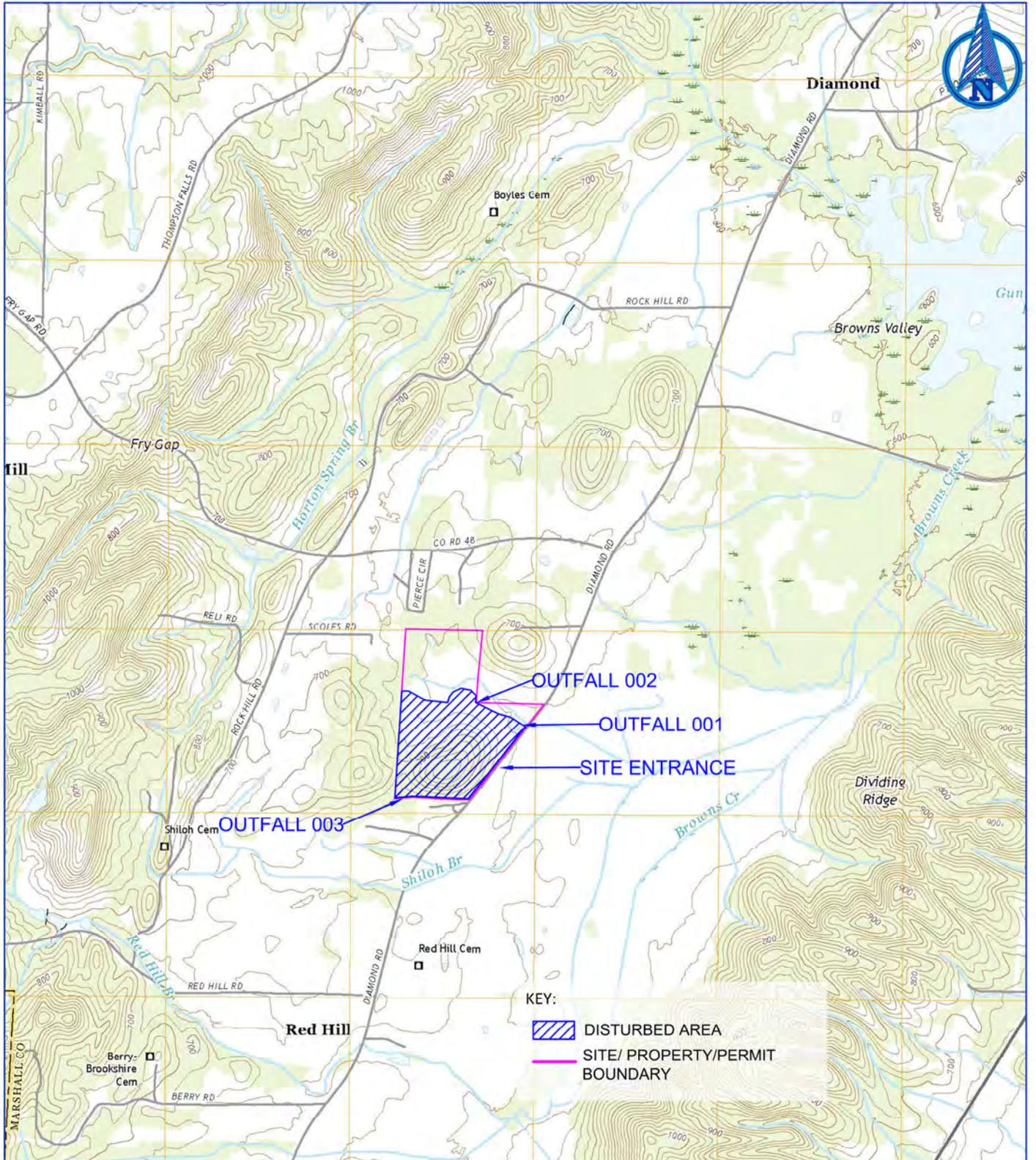
7201 Opportunity Boulevard  
 Huntsville, Alabama 35810  
 PH (256)837-6708  
 FX (256)837-6702

SCALE: 1":2,500'

PROJ. #: 25-0907

DATE: 02/19/2026

FIGURE 2



PROJECT NEW ROAD  
 REED MATERIALS  
 GUNTERSVILLE, ALABAMA

SITE LOCATION MAP

**UES**<sup>TM</sup>  
 Universal Engineering Sciences, LLC

7201 Opportunity Boulevard  
 Huntsville, Alabama 35810  
 PH (256)837-6708  
 FX (256)837-6702

SCALE: 1":2,500'

PROJ. #: 25-0907

DATE: 02/19/2026

FIGURE 1

**SPILL PREVENTION, CONTROL AND COUNTERMEASURES  
(SPCC) PLAN**

**FOR**

**REED MATERIALS, LLC  
PROJECT NEW ROAD  
7442 WARRENTON ROAD  
GUNTERSVILLE, ALABAMA 35741**

**MARSHALL COUNTY, ALABAMA  
UES PROJECT NUMBER: 25-0907**

**DATE OF PLAN: February 19, 2026**

**PREPARED BY:**

**UES  
7201 OPPORTUNITY BOULEVARD  
HUNTSVILLE, ALABAMA 35810**



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**Appendices**

Appendix A – Site Location Map

Appendix B – Containment Dike Design Calculations and Drawings

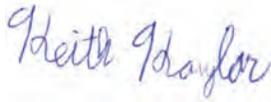
Appendix C – Spill Reporting Form

Appendix D – Inspection Checklists



### 1.0 CERTIFICATION STATEMENT

*I certify under penalty of law that I am a registered professional engineer familiar with the provisions of 40 CFR 112. This Spill Prevention, Control and Countermeasures Plan was prepared in accordance with good engineering practices. I understand that there are significant penalties for submitting false information, up to and including fine and imprisonment. To the best of my knowledge and belief all of the information in this Spill Prevention, Control and Countermeasures Plan is true, accurate and complete.*



Keith Kaylor  
Alabama P.E. License #23588



February 19, 2026



## 2.0 MANAGEMENT APPROVAL

Reed Materials, LLC is committed to the prevention of discharges of oil to navigable waters and to maintaining the spill prevention control and countermeasures contained in this SPCC Plan through regular review, updating, and implementation of the Plan.

A complete copy of this plan will be maintained at the facility. In addition, the plan will be readily available to the Environmental Protection Agency (EPA) Regional Administrator (EPA Region 4) during normal business hours.

### Authorized Facility Representatives:

**Name:** Chastin Reed

**Title:** Member

**Signature:**

**Date:**

**Name:** Dusty Whisenant

**Title:** Quarry Superintendent

**Signature:**

**Date:**



### 3.0 FACILITY AND EMERGENCY CONTACT LIST

Contact Name	Primary Contact and/or 24-hour Emergency Phone Number
Chastin Reed - Reed Materials, LLC	(256) 990-4331
Dusty Whisenant – Quarry Superintendent, Reed Materials, LLC	(256) 200-6193
U.S. EPA - Region 4 (Atlanta, GA)	(404) 562-9900
U.S. Coast Guard National Response Center	(800) 424-8002
US Ecology Emergency Response	(800) 839-3975
Guntersville Fire Station 1	(256) 571-7575
Marshall County Emergency Management Agency	(256) 571-7329
ADEM – Decatur Field Office	(256) 353-1713
ADEM – After Hours Reporting	(800) 843-0699
Campbell Remediation Service	(256) 527-2376
Hardiman Remediation Services, Inc.	(256) 423-8964





**5.0 CROSS REFERENCE TABLE**

<b>40 CFR Reference</b>	<b>SPCC Plan Section Number</b>	<b>Requirement</b>	<b>Page Number</b>
§112.3(d)	Section 1.0	Professional Engineer Certification	1
§112.7	Section 2.0	Management Approval	2
§112.5	Section 4.0	Plan Review and Evaluation	4
§112.7(a)(3)	Section 6.0	Facility Information	6
§112.7(a)(4)	Section 8.6	Discharge Reporting	9
§112.7(a)(5)	Section 8.7	Discharge Response Procedures	10
§112.7(b)	Section 8.8	Spill Predictions, Volumes, and Control	12
§112.7(c)	Section 8.9	Containment and Diversionary Structures	12
§112.7(d)	Section 8.10	Practicability Determination	12
§112.7(e)	Section 8.11	Inspections, Tests, and Records	12
§112.7(f)	Section 8.12	Personnel, Training, and Discharge Prevention Measures	13
§112.7(g)	Section 8.13	Security	13
§112.7(h)	Section 8.14	Transfer Procedures	13
§112.8(b)	Section 9.1	Facility Drainage	14
§112.7(c)	Section 9.2	Bulk Storage Containers	14
§112.7(d)	Section 9.3	Facility Transfer Operations	17
§112.20(e)	Section 10.0	Applicability of Substantial Harm Criteria	18



## 6.0 FACILITY INFORMATION

### 40 CFR 112.7(a)(3)

The subject property is located on the west side of Warrenton Road, approximately 0.75 mile south of the intersection with Fry Gap Road in Sections 3 and 10, Township 9 South, Range 2 East in Marshall County. The subject property will be developed into a limestone quarry, to include wet and dry preparation, transportation, and storage.

A Site Location Map identifying the location of the facility is included in Appendix A.

### 6.1 Topography and Surface Drainage

The entrance to the facility is off Warrenton Road. Drainage from the central portion of the permitted area drains to the northeast and will be routed to two sediment basins that are associated with permitted outfalls. The northernmost portion of the permitted area will not be disturbed and will remain stabilized. A third sediment basin and associated outfall are planned for the southwest corner of the permitted area.

Water from the basins will be recycled and used in the plants for dust control. Over time, the advancement of mining operations will create an incised pit, allowing stormwater associated with mining operations to be contained in a sump within the active pit. Stormwater drainage associated with fuel/oil storage on site will be routed to either the active pit or one of the sediment basins associated with permitted outfalls.

## 7.0 PETROLEUM STORAGE AREAS

### Aboveground Storage Tank (AST) Inventory

#### 40 CFR 112.7(a)(3)(i)

The following table provides a summary of aboveground storage tanks (ASTs) with a capacity of 55-gallons or greater, including contents, storage capacity, container structure and type, secondary containment, and location.

Tank #	Contents	Storage Capacity (gal)	Container Structure & Type	Secondary Containment	Location
1	Diesel	12,000	Double-walled steel	Integral second tank wall	34.2736, -86.4208
2	Waste Oil	2,000	Double-walled steel	Integral second tank wall	34.2736, -86.4208
3	Diesel Exhaust Fluid	375	Intermediate Bulk Container	Containment dike	34.2736, -86.4208
4	Hydraulic Fluid	55	Steel drum	Containment dike	34.2736, -86.4208



## 8.0 DISCHARGE HANDLING, CONTROLS, AND SPILL RESPONSE

### 8.1 Discharge Prevention Measures

40 CFR 112.7(a)(3)(ii)

Discharge prevention measures are those steps or procedures taken to minimize the potential for a discharge of oil products at the facility. This includes an evaluation of the following:

- a. Above ground valve and pipeline examinations
- b. Above ground piping protection from vehicular traffic
- c. The loading, unloading and transfer of oil at the facility

*Above ground valve and pipeline examinations.* Above ground valve and piping shall be inspected on a regular basis and note the conditions of pipes, flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, metal surfaces and those areas where the piping has a high potential for leaking. All above ground piping shall be marked with the product content, origin and direction of flow. Also, the piping needs to be marked, preferably with intermittent color-coding to indicate the type of product.

*Aboveground piping protection from vehicular traffic.* All aboveground piping is and shall remain protected from vehicular traffic by means of bumper poles, barriers, clearance and warning signs or verbally warned upon entering the facility. All the current aboveground piping is within the protection of the containment area. No bumpers or other means of protection are required.

*The loading, unloading and transfer of oil at the facility.* The facility personnel, when present, shall oversee vendors unloading oil to the facility. All facilities must comply with the minimum requirements of the U.S. Department of Transportation regulations for loading and unloading including but not limited to:

- No smoking while loading or unloading. Smoking on or about any motor vehicle while loading or unloading any oil materials is forbidden.
- Keep fire away while loading and unloading. Extreme care shall be taken in the loading or unloading materials into or from any motor vehicle to keep fire away and to prevent persons in the vicinity from smoking, lighting matches, or carrying any flame or lighted cigar, pipe or cigarette.
- Handbrake set while loading and unloading. No hazardous material shall be loaded into or on, or unloaded from, any motor vehicle unless the handbrake is securely set, and all other reasonable precautions are taken to prevent motion of the motor vehicle during such loading or unloading process.
- Attendance requirements while loading and unloading. A qualified person must attend a cargo tank at all times while it is being loaded. The person who is responsible for loading the cargo tank is also responsible for ensuring that it is so attended. A qualified person "attends" the loading or unloading of a cargo tank if, throughout the process, he is alert and is within 7.62 m (25 feet) of the cargo tank. The qualified person attending the unloading of a cargo tank must have an unobstructed view of the cargo tank and delivery hose to the maximum extent practicable during the unloading operation.
- Engine stopped. Unless the engine of a cargo tank motor vehicle is to be used for the operation of a pump, oil may not be loaded into, or on, or unloaded from any cargo tank motor vehicle while the engine is running.



Prior to delivering fuel to the site the vendor shall either notify the Quarry Superintendent, who shall confirm the types and amounts of fuel to be delivered to each tank or check the site levels on the tank to assure sufficient space for the delivery. The facility uses automatic check valves for tank loading procedures. This check valve is a one-way system that eliminates back flow.

Warning signs will be used at the facility to prevent vehicles from departing prior to completely disconnecting from transfer lines. The signage shall instruct the attendant loading or unloading to examine the valves, hoses, connections, fittings and lowermost drain and outlets of their vehicle for leakage prior to loading, unloading or departure.

## **8.2 Discharge & Drainage Controls**

40 CFR 112.7(a)(3)(iii)

Tanks 1 and 2 are both double walled, while Tanks 3 and 4 will be in a containment dike. The containment dike was designed to contain 110% of the largest container, which is the 375-gallon IBC of diesel exhaust fluid. Design calculations and drawings for the containment dike can be found in Appendix B.

Arrows depicting surface flow are shown on the Site Detail Map included in Appendix A.

## **8.3 Spill Response**

40 CFR 112.7(a)(3)(iv)

In the event of an oil discharge or leak, Reed Materials, LLC personnel identifying the discharge or leak shall immediately notify the Quarry Superintendent, then take appropriate action to promptly contain and/or clean up the spill and prevent any further leak or spill. Sufficient equipment and materials are maintained at the site for quick response in containment and clean-up of petroleum leaks and/or spills. Spill response equipment includes sorbent material, absorbent pads and booms, brooms, shovels, and empty drums. Spills will be contained and cleaned using the proper spill response equipment.

The facility will provide spill response equipment to contain a minimum of 55-gallons of oil. These supplies and equipment are inspected quarterly or after any supplies are utilized to ensure that adequate amounts are always present. In the event of a spill, all pertinent information on the discovery, cause, corrective action, clean-up, and notification should be thoroughly documented on the Spill Report Form. Personnel observing the leak or spill will take whatever action is necessary to prevent or minimize spilled liquid from entering the facility drainage system or otherwise reaching a waterway. Details for spill response procedures are provided in Section 8.7 of this Plan.

## **8.4 Methods of Disposal of Recovered Materials**

40 CFR 112.7(a)(3)(v)

Waste material generated during cleanup activities must be characterized in accordance with federal and state regulations. Contaminated absorbent material will be placed in drum(s) and disposed of by the appropriate method (fuel recycler or disposal facility). The Quarry Superintendent will arrange for the cleanup and/or disposal of spill residual. If the discharge requires the use of an environmental remediation contractor, such contractor shall arrange for the proper disposal of recovered materials.



## 8.5 Emergency Contact List

40 CFR 112.7(a)(3)(vi)

A list of Reed Materials, LLC personnel, emergency contacts, appropriate agencies, and emergency response contractors is included in Section 3.0 of this plan.

## 8.6 Discharge Reporting

40 CFR 112.7(a)(4)

Immediately report any spill, including spills identified in secondary containment, to the Quarry Superintendent. If the Quarry Superintendent determines the spill meets the criteria listed in Sections 8.6.1 and 8.6.2, State and/or Federal regulatory agencies are to be contacted. A Spill Reporting form can be found in Appendix C. The facility shall follow the state and federal reporting requirements summarized below.

### 8.6.1 State Reporting Requirements

For purposes of this Plan, a release to the environment is defined as a release off-site, a release to the ambient air or to navigable waterways, or a release on-site which has not been contained to prevent its migration off-site or into groundwater, except that 25-gallons or greater oil release shall always be reported per Alabama Administrative Code 335-6-15.23.

Spill events discharging oil, hazardous substances, industrial solid waste, or other substances in a quantity equal to or greater than the reportable quantity listed in 40 CFR 302.4, in any 24-hour period, are subject to notification requirements. Upon the determination that a reportable discharge has occurred, notification shall be made to the Alabama Department of Environmental Management (ADEM) by the Quarry Superintendent, as soon as possible, but not later than two hours after the discovery of the spill or discharge.

The initial notification shall provide, to the extent known, the information in the following list:

1. Name, address, and telephone number of the person making the telephone report.
2. Date, time, and location of the spill or discharge.
3. Description or identification of the oil, petroleum product, hazardous substances or the substances discharged or spilled.
4. Estimate of the quantity discharged or spilled.
5. Duration of the incident.
6. Name of the surface water or a description of the waters of the state affected or threatened by the discharge or spill.
7. Source of the discharge or spill.
8. Description of the extent of actual or potential water pollution or harmful impacts to the environment and the identification of any environmentally sensitive areas or natural resources at risk.
9. Names, addresses, and telephone number of the person responsible and the contact person at the location of the discharge or spill.
10. Description of any actions that have been taken, are being taken, and will be taken to contain and respond to the discharge or spill.
11. Any known or anticipated health risks.
12. Any other information that may be significant to the response action.



The Quarry Superintendent shall also notify ADEM as soon as possible whenever necessary to provide information that would trigger a change in the response to the spill or discharge. If the discharge or spill could be harmful to public health or wellbeing of the environment, the Quarry Superintendent shall immediately notify and cooperate with local emergency authorities in providing support to implement appropriate notification and response actions. In the absence of a local emergency authority, the person responsible shall take reasonable measures to notify potentially affected people of the imminent health threat. Notification shall also be given to adjacent property owners and residents that may adversely be affected.

#### 8.6.2 Federal Reporting Requirements

Whenever a facility has discharged more than 1,000-gallons of oil in a single discharge as described in §112.1(b), or discharged more than 42-gallons of oil in each of two discharges as described in §112.1(b), occurring within any twelve-month period, the facility must submit the following information to the Environmental Protection Agency (EPA) Regional Administrator within 60 days from the time the facility becomes subject to this section:

1. Your name, location, organization, and telephone number.
2. Name and address of the party responsible for the incident.
3. Date and time of incident.
4. Location of incident.
5. Source and cause of the release or spill.
6. Types of materials released or spilled.
7. Quantity of materials released or spilled.
8. Danger or threat posed by the release or spill.
9. Number and types of damage and/or injuries (if any).
10. Corrective action and countermeasures taken.
11. Whether an evacuation may be needed.
12. Names and/or organizations who have been contacted.

A complete copy of all information provided to the Regional Administrator shall also be sent to ADEM. After reviewing the SPCC Plan and all other information submitted, the Regional Administrator may require the owner or operator of the facility to amend the SPCC Plan. Any amendment required by the Regional Administrator shall become part of the Plan within 30 days, or another specified effective date, after the notice to require any amendment to the Plan. Amendments to the Plan shall be implemented no later than six months after the amendment becomes part of the Plan unless the Regional Administrator specifies another date.

### **8.7 Discharge Response Procedures**

40 CFR 112.7(a)(5)

#### 8.7.1 Immediate Actions

Reed Materials, LLC, shall use the following procedures in response to a discharge:

1. Activate internal facility alarms or communication systems, where applicable, to notify and/or evacuate and account for all facility personnel.
2. Notify appropriate State or local agencies with designated response roles if their help is needed.
3. If an evacuation is not required and the fire or release can be approached safely, attempt to stop the spread of the release or put out small fires using onsite equipment. Only personnel with hands-on fire extinguisher training should use fire extinguishers.



4. Whenever there is a release, fire, or explosion, the Quarry Superintendent and/or the emergency response contractor (ERC) must immediately identify the character, exact source, amount, and extent of any released materials. The Quarry Superintendent and/or ERC may do this by observation or reviewing safety data sheets (SDS) and facility records or manifests.
5. Concurrently, the Quarry Superintendent and/or ERC must assess possible hazards to human health or the environment that may result from release, fire, or explosion. This assessment must consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-offs from water or chemical agents used to control fire and heat-induced explosions).
6. If the Quarry Superintendent determines that the facility has had a release to the environment which is not incidental, or a fire/explosion which could threaten human health or the environment outside the facility, they must report their findings as follows:
  - a. If the assessment indicates that evacuation of local areas may be advisable, the Quarry Superintendent must immediately notify appropriate local authorities identified in Section 8.6. The Quarry Superintendent must be available to help appropriate officials decide whether local areas should be evacuated; and
  - b. The Quarry Superintendent must immediately notify the National Response Center (24-hour toll free number 800-424- 8802). The report must include:
    - (i) Name and telephone number of Dispatcher or person making report.
    - (ii) Name and address of facility.
    - (iii) Time and type of incident (i.e., release, fire).
    - (iv) Name and quantity of material(s) involved, and whether it is an extremely hazardous substance (EHS), to the extent known.
    - (v) The extent of injuries, if any.
    - (vi) The possible hazards to human health, or the environment, outside the facility.
7. During an emergency, the Quarry Superintendent must take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous materials at the facility. These measures must include, where applicable, stopping processes and operations, collecting and containing released waste, and removing or isolating containers.
8. If the facility stops operations in response to a fire, explosion or release, the Quarry Superintendent must monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever this is appropriate.

#### 8.7.2 Follow-Up Actions

1. Immediately after an emergency, the Quarry Superintendent must arrange for the disposal of recovered materials, contaminated soil or surface water, or any other material that results from a release, fire, or explosion at the facility. Unless the facility can demonstrate that the recovered material is not a hazardous waste, the facility becomes a generator of hazardous waste and must manage it in accordance with all applicable requirements of 40 CFR parts 262, 263, and 265.
2. The Quarry Superintendent must ensure that, in the affected area(s) of the facility:
  - a. No waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed.
  - b. All emergency equipment listed in the plan is cleaned and fit for its intended use before normal operations are resumed.



### 8.8 Spill Predictions, Volumes, and Control

40 CFR 112.7(b)

Tank #	Passive Secondary Containment	Active Secondary Containment	Rate of Discharge	Direction of Flow	Potential Release Volume (gal)
1	Double walled tank	Sorbent materials & booms	Gradual to instantaneous	Northeast to sediment basin	12,000
2	Double walled tank	Sorbent materials & booms	Gradual to instantaneous	Northeast to sediment basin	2,000
3	Containment dike	Sorbent materials & booms	Gradual to instantaneous	Northeast to sediment basin	375
4	Containment dike	Sorbent materials & booms	Gradual to instantaneous	Northeast to sediment basin	55

### 8.9 Containment and Diversiory Structures

40 CFR 112.7(c)

Appropriate containment, diversionary structures, and/or spill response equipment to prevent a discharge as described in §112.1(b) and in Section 8.8 of this plan have been provided for this facility.

At a minimum, the facility will use one or more of the following prevention systems or its equivalent:

1. Dikes, berms, or retaining walls sufficiently impervious to contain oil.
2. Curbing.
3. Culverting, gutters, or other drainage systems.
4. Weirs, booms, or other barriers.
5. Temporary Spill diversion ponds.
6. Sediment Basins.
7. Sorbent materials.

### 8.10 Practicability Determination

40 CFR 112.7(d)

Reed Materials, LLC, has determined the secondary containment provided by the double walled construction of both the 12,000-gallon diesel fuel tank and the 2,000-gallon waste oil tank, as well as the secondary containment provided by the dike described in Section 8.2 will prevent discharges as described in §112.1(b).

### 8.11 Inspections, Tests, and Records

40 CFR 112.7(e)

In accordance with the Steel Tank Institute standard SP-001, periodic tank inspections are to be performed by the facility. The inspector shall be knowledgeable about storage facility operations, the type of tank and its associated components, spill control, and characteristics of the stored liquid. The inspector must also be familiar with pumping, piping, and valve operations of the tank system.



Inspections of the AST's, petroleum filled equipment, storage containers, spill response and clean-up equipment and supplies are conducted by Reed Materials, LLC personnel and are described in this section. The representative Quarry Superintendent (Dusty Whisenant) or his/her representative coordinates the activities of the personnel to perform the required inspections and record maintenance.

The AST's, containment areas, petroleum filled equipment, and storage containers located at the facility are observed by Reed Materials, LLC personnel during daily operations. Records of the inspections and other information prescribed in this SPCC Plan are dated and signed by the appropriate supervisory inspector and maintained at the facility for a period of no less than three years.

Inspection Checklists are included in Appendix C.

### **8.12 Personnel, Training, and Discharge Prevention Procedures**

40 CFR 112.7(f)

The facility manager shall schedule and conduct spill prevention briefings for the necessary personnel at intervals frequent enough to maintain knowledge and skills adequate to execute the provisions of this SPCC Plan. The briefings shall review actual events that occurred on the site, equipment failures or malfunctions and any newly adopted preventative measures. All new hires shall be trained on the provisions of this SPCC Plan. Once a year, refresher training shall be conducted. Sign-in sheets noting the topics of discussion at each briefing or training session shall be maintained.

### **8.13 Security**

40 CFR 112.7(g)

The following safety measures are in place:

1. Location: site is naturally secured by topography
2. Starter Control – When the facility is closed for business, the starter controls on all pumps do not function because the electricity is disconnected.
3. Loading and unloading: field pipe has check valve and locking cap
4. Lighting to assist in discovery of a discharge or vandalism

### **8.14 Transfer Procedures**

40 CFR 112.7(h)

Reed Materials, LLC receives shipments of diesel fuel for the ASTs via tank truck. Reed Materials, LLC personnel and tank truck operators are responsible for monitoring loading/unloading operations. Piping utilized during the loading of the AST contains a check valve, which only allows flow into the AST. All loading and/or unloading connections and facility piping are capped when not in use. The 12,000-gallon tank includes an overfill chamber that diverts overfilled product into secondary containment that accommodates 110% - 120% of the tank's capacity. The secondary containment is fully enclosed, rain-shielded and seal-welded. Tank trucks are inspected by facility personnel prior to filling and departure. During the loading/unloading process, all vehicles are prevented from moving by physical barriers such as wheel chocks and are inspected for leaks prior to departure. Drainage in the loading/unloading area flows south towards a detention pond. All valves are closed and locked prior to departure.

Facility trucks utilize the 12,000-gallon diesel fuel tank for fueling during daily operations. The dispenser is located atop the tank, providing protection from vehicular traffic. Facility trucks are also prevented from



moving by physical barriers such as wheel chocks. Facility trucks are inspected for leaks by Reed Materials, LLC personnel prior to departure.

Used oils on site, such as engine oil, hydraulic oil, gear oil, transmission fluid, compressor oil, and lubricating oils, will be drained into dedicated containers using funnels with screens. These containers will be kept closed when not in use. Pumps or controlled pouring shall be used to transfer waste oils into the 2,000-gallon waste oil tank. Avoid overfilling; hoses and fittings should be inspected regularly. Used oil can be recycled or transported off site via a used oil transporter.

### **8.15 Field Constructed Aboveground Storage Tanks**

40 CFR 112.7(i)

Not applicable; field-constructed containers are not located at this facility.

### **8.16 Conformance with Applicable Standards**

40 CFR 112.7(j)

No additional applicable requirements and other effective discharge prevention and containment procedures are required for this Plan.

## **9.0 SPECIFIC REQUIREMENTS**

40 CFR 112.8(a)

The facility has met the general requirements for the plan listed under §112.7 and the specific discharge prevention and containment procedures §112.8.

### **9.1 Facility Drainage**

40 CFR 112.8(b)

Discharges associated with the 12,000-gallon diesel tank and 2,000-gallon waste oil tanks are contained by the integral second tank wall, while discharges associated with the 375-gallon diesel exhaust fluid IBC will be contained by the dike detailed in Section 8.2. Should a release occur, booms and active measures can be placed down-gradient to quickly prevent product from reaching the sediment basin. If the product overwhelms the booms and other active measures, the product will flow to a sediment basin where additional measures can be taken to prevent a release from the property. Direction of flow is shown on the Site Detail Map in Appendix A.

### **9.2 Bulk Storage Containers**

40 CFR 112.8(c)

As defined in §112.2, oil-filled operational equipment is not considered a bulk storage container.

#### 9.2.1 Container Compatibility

40 CFR 112.8(c)(1)

All oil containers are compatible in material and construction with the contents at the storage temperature and pressure.



### 9.2.2 Secondary Containment

40 CFR 112.8(c)(2)

Secondary containment for the 12,000-gallon diesel fuel tank and 2,000-gallon waste oil tank is provided by the integral design of the double-walled AST. The diesel exhaust fluid IBC and barrels of hydraulic fluid will be present inside a containment dike.

### 9.2.3 Drainage of Diked Areas

40 CFR 112.8(c)(3)

Drainage of diked areas at the facility is controlled to prevent the discharge of oil to navigable waters or waters of the state. The following procedures are implemented:

- Drainage from diked areas is normally kept closed and remains sealed except when accumulated stormwater is intentionally removed.
- Prior to drainage, accumulated stormwater is visually inspected by trained personnel to determine the presence of oil or oily residue.
- If the inspection indicates that the water is free of oil, drainage may be manually released or pumped in a controlled manner to onsite areas where oil will not reach surface waters.
- If oil or oily residue is observed or suspected, the drainage is not released and is instead collected and properly managed for disposal in accordance with applicable regulations.
- Drainage valves, pumps, or other mechanisms are secured when not in use to prevent unauthorized or accidental discharge.
- Inspections and drainage activities are conducted and documented in accordance with the facility's SPCC inspection and recordkeeping procedures.

### 9.2.4 Corrosion Protection

40 CFR 112.8(c)(4)

Not applicable; completely buried metallic storage tanks are not located at this facility.

### 9.2.5 Partially Buried or Bunkered Tanks

40 CFR 112.8(c)(5)

Not applicable; partially buried or bunkered tanks are not located at this facility.

### 9.2.6 Inspections and Test

40 CFR 112.8(c)(6)

Inspections and integrity testing of ASTs will be conducted by Reed Materials, LLC in accordance with good engineering practices and Section 8.11 of this Plan. Records of inspections and tests are signed by the inspector and stored at the facility for a minimum of three years.

### 9.2.7 Internal Heating Coils

40 CFR 112.8(c)(7)

Not applicable; bulk storage containers utilizing internal heating coils are not located at this facility.



### 9.2.8 Discharge Avoidance

40 CFR 112.8(c)(8)

Each bulk storage container installation is engineered or updated in accordance with good engineering practices to avoid discharges. All tanks have a rapid method for determining the liquid level of each bulk storage container. The following table shows the discharge avoidance device provided on each bulk storage container:

Container #	Container Structure & Type	Storage Capacity (gal)	Discharge Avoidance
1	Double-walled steel	12,000	Visual gauge & double walled construction
2	Double-walled steel	2,000	Visual gauge & double walled construction
3	IBC	375	Visual observation
4	Steel drum	55	Visual observation

### 9.2.9 Effluent Treatment Facilities

40 CFR 112.8(c)(9)

Not applicable; the facility does not operate any treatment facilities subject to this Plan.

### 9.2.10 Visible Discharges

40 CFR 112.8(c)(10)

The facility will correct visible discharges which result in a loss of oil from a container, including seams, gaskets, piping, pumps, valves, rivets, and bolts. The facility will remove any accumulation of oil in storage rooms.

### 9.2.11 Portable Storage Containers

40 CFR 112.8(c)(11)

Portable storage containers at the facility include delivery trucks and potentially small portable containers such as 55-gallon drums. Active measures, such as booms and sorbent materials, will be used to contain discharges from delivery trucks. If any 55-gallon drums are temporarily located at the facility, they will be stored inside a building where secondary containment is provided by concrete floors and active measures. If any 55-gallon drums are temporarily stored outside, the drums shall be placed on spill trays or in the containment dike.

## **9.3 Facility Transfer Operations**

### 9.3.1 Buried Piping

40 CFR 112.8(d)(1)

There will be no buried piping at the facility.



### 9.3.2 Terminal Connections

40 CFR 112.8(d)(2)

Piping will be capped or blank-flanged when not in service or is in standby service for an extended time.

### 9.3.3 Pipe Support

40 CFR 112.8(d)(3)

Pipe supports are designed to minimize abrasion and corrosion and to allow for expansion and contraction. Pipe supports are visually inspected during monthly inspections.

### 9.3.4 Inspection of Aboveground Valves and Piping

40 CFR 112.8(d)(4)

Aboveground piping and valves are examined monthly to assess their condition. Inspection includes aboveground valves, piping, appurtenances, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces. Observations are noted on the monthly inspection checklist provided in this Plan.

### 9.3.5 Vehicular Warning

40 CFR 112.8(d)(5)

Warning signs are posted at appropriate locations throughout the facility to prevent vehicles from damaging aboveground piping and appurtenances. The signage shall instruct the attendant loading or unloading to examine the valves, hoses, connections, fittings and lowermost drain and outlets of their vehicle for leakage prior to loading, unloading or departure.



**10.0 APPLICABILITY OF SUBSTANTIAL HARM CRITERIA**

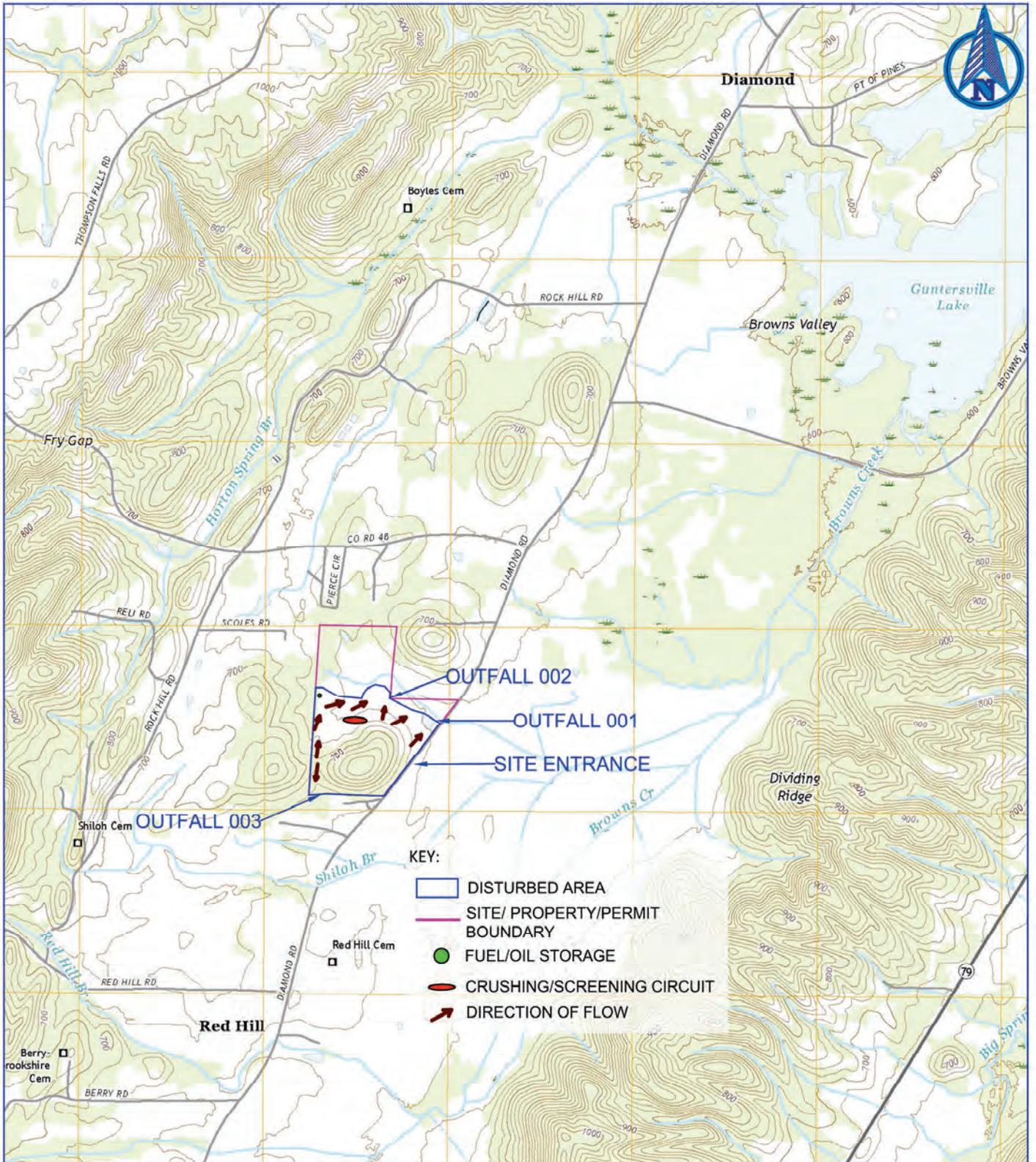
40 CFR 112.20(e)

<b>SUBSTANTIAL HARM CRITERIA CHECKLIST (Facility Response Planning)</b>		
<b>Project New Road</b>	<b>Reed Materials, LLC 7442 Warrenton Road Guntersville, Alabama 35742</b>	
<b>SUBSTANTIAL HARM CRITERIA CHECKLIST:</b> <i>This checklist certifies that the facility listed above is not a Substantial Harm Facility that requires the preparation of a Facility Response Plan under the Oil Pollution Act (OPA) of 1990. By this certification, the facility is not subject to the OPA facility response planning requirements for this facility</i>		
	<b>Yes</b>	<b>No</b>
1. Does the facility transfer oil over water to or from vessels and does the facility have a total storage capacity greater than or equal to 42,000 gallons?		X
2. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank?		X
3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?		X
4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility would shut down a public drinking water intake?		X
5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable spill in an amount greater than or equal to 10,000 gallons within the last 5 years?		X
<b>CERTIFICATION</b>		
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.		
Chastin Reed, Member <i>Name and Title of Responsible Official</i>		
Signature	Date	



**APPENDIX A**  
**SITE LOCATION MAP**





PROJECT NEW ROAD  
 REED MATERIALS  
 GUNTERSVILLE, ALABAMA

SITE DETAIL MAP



Universal Engineering Sciences, LLC

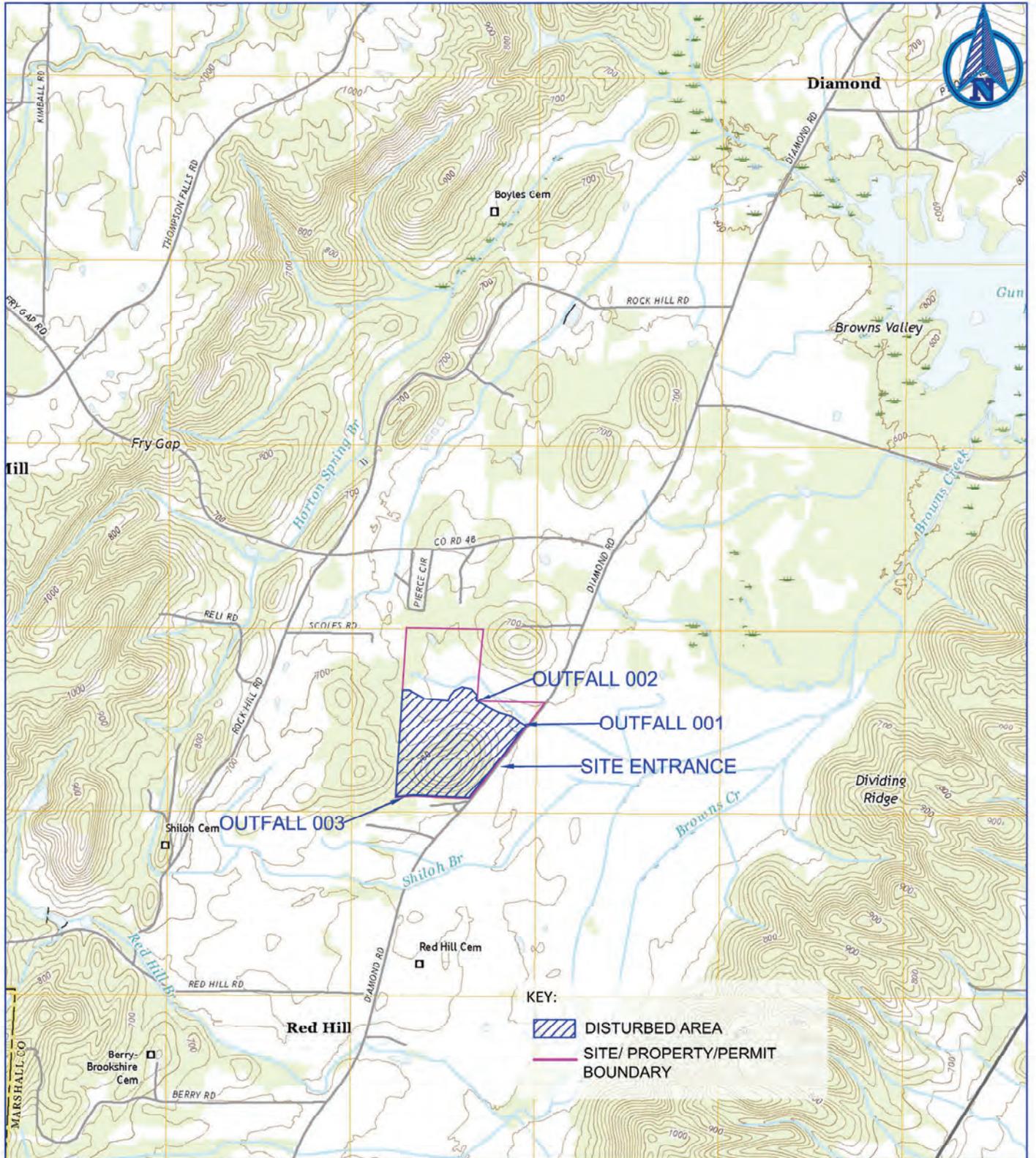
7201 Opportunity Boulevard  
 Huntsville, Alabama 35810  
 PH (256)837-6708  
 FX (256)837-6702

SCALE: 1":2,500'

PROJ. #: 25-0907

DATE: 02/19/2026

FIGURE 2



PROJECT NEW ROAD  
 REED MATERIALS  
 GUNTSVILLE, ALABAMA

SITE LOCATION MAP



Universal Engineering Sciences, LLC

7201 Opportunity Boulevard  
 Huntsville, Alabama 35810  
 PH (256)837-6708  
 FX (256)837-6702

SCALE: 1":2,500'

PROJ. #: 25-0907

DATE: 02/19/2026

FIGURE 1

## **APPENDIX B**

### **CONTAINMENT DIKE DESIGN CALCULATIONS AND DRAWINGS**



## Design Calculations for Containment Dike

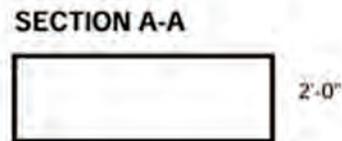
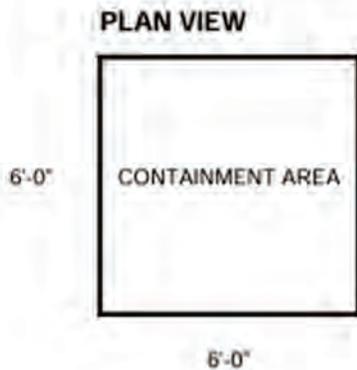
1. Standard industry practice = 110% of the largest container, which is the 375-gallon IBC of diesel exhaust fluid.

$$375\text{-gallon IBC} \times 1.10 = 412.5\text{-gallon minimum secondary containment capacity}$$

2. Convert gallons to  $\text{ft}^3$

$$\frac{412.5 \text{ gallon}}{7.48 \text{ gallon}} \left| \frac{1 \text{ ft}^3}{7.48 \text{ gallon}} \right. = 55.15\text{-ft}^3 \text{ containment volume needed}$$

A diked containment structure that is 6ft x 6ft x 2ft will provide 72- $\text{ft}^3$  or 538 gallons of storage.



### Notes:

1. The containment dike and floor shall be constructed of liquid-tight material.
2. There shall be no breaches through containment dike walls. Any drain that is installed shall normally be closed and be fitted with a locking mechanism to prevent discharge.

**APPENDIX C**

**SPILL REPORTING FORM**



## SPCC Spill Reporting Form

### Facility Information

**Facility Name:** Reed Materials – Project New Road

**Facility Address:** 7442 Warrenton Road; Guntersville, AL 35976

**SPCC Plan Date:** February 19, 2026

**Prepared By:**

### Spill Information

**Date of Spill:**

**Time of Spill:**

**Discovered By:**

**Weather Conditions:**

### Oil Information (40 CFR 112)

**Tank #:**

**Type of Oil:**

**Estimated Quantity Released (gallons):**

**Source of Spill (tank, hose, equipment, etc.):**

**Cause of Spill:**

### Location and Pathway

**Spill Location:**

**Did oil reach navigable waters or shorelines? Yes/No**

**If yes, describe waterbody and pathway:**

### Response and Cleanup Actions

**Immediate Actions Taken:**

**Containment Measures Used:**

**Cleanup Method and Disposal:**

**Notifications**

**Was the National Response Center (1-800-424-8802) notified? Yes/No**

Date/Time of NRC Notification:

**Was ADEM (1-800-843-0699) notified? Yes/No**

Date/Time of ADEM Notification:

**Corrective Actions**

**Repairs Made or Planned:**

**Measures to Prevent Recurrence:**

**Certification**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**APPENDIX D**

**INSPECTION CHECKLISTS**



## MONTHLY SPCC TANK INSPECTION FORM

**Facility Name:** Reed Materials – Project New Road

**Facility Address:** 7442 Warrenton Road; Guntersville, AL 35976

**SPCC Plan Date:** February 19, 2026

**Tank ID / Tank Description:** 1

**Tank Capacity (gallons):** 12,000-gallon (double walled)

**Tank Contents (oil type):** Diesel fuel

**Inspection Date:**

**Inspector Name & Title:**

Inspection Checklist (Check ✓ or X):

- No visible leaks, drips, or stains on tank shell or fittings
- Tank exterior free of excessive corrosion or damage
- Valves, flanges, and piping in good condition
- Tank vents and overfill protection unobstructed
- Secondary containment free of cracks or damage
- No oil present in secondary containment
- Stormwater accumulation acceptable / no oil sheen
- Spill kits present, stocked, and accessible
- Tank labeling and signage legible

Deficiencies Observed / Corrective Actions Taken:

---

Inspector Signature

---

Date

## ANNUAL SPCC TANK INSPECTION FORM

**Facility Name:** Reed Materials – Project New Road

**Facility Address:** 7442 Warrenton Road; Guntersville, AL 35976

**SPCC Plan Date:** February 19, 2026

**Tank ID / Tank Description:** 1

**Tank Capacity (gallons):** 12,000-gallon (double walled)

**Tank Contents (oil type):** Diesel fuel

**Inspection Date:**

**Inspector Name & Title:**

Detailed Inspection Checklist (Check ✓ or X):

- Tank shell, roof, and bottom show no structural defects
- Tank foundation and supports stable and intact
- External corrosion within acceptable limits
- Piping systems, hoses, and connections in good condition
- Valves, alarms, and gauges operational
- Secondary containment capacity and integrity adequate
- Containment walls and floor free of cracks or erosion
- Drainage controls functional and secured
- No history of discharges since last inspection

Summary of Findings / Required Repairs / Follow-Up Actions:

---

Inspector Signature

---

Date

## MONTHLY SPCC TANK INSPECTION FORM

**Facility Name:** Reed Materials – Project New Road

**Facility Address:** 7442 Warrenton Road; Guntersville, AL 35976

**SPCC Plan Date:** February 19, 2026

**Tank ID / Tank Description:** 2

**Tank Capacity (gallons):** 2,000-gallon (double walled)

**Tank Contents (oil type):** Waste oil

**Inspection Date:**

**Inspector Name & Title:**

### Inspection Checklist (Check ✓ or X):

- No visible leaks, drips, or stains on tank shell or fittings
- Tank exterior free of excessive corrosion or damage
- Valves, flanges, and piping in good condition
- Tank vents and overfill protection unobstructed
- Secondary containment free of cracks or damage
- No oil present in secondary containment
- Stormwater accumulation acceptable / no oil sheen
- Spill kits present, stocked, and accessible
- Tank labeling and signage legible

Deficiencies Observed / Corrective Actions Taken:

---

Inspector Signature

---

Date

## ANNUAL SPCC TANK INSPECTION FORM

**Facility Name:** Reed Materials – Project New Road

**Facility Address:** 7442 Warrenton Road; Guntersville, AL 35976

**SPCC Plan Date:** February 19, 2026

**Tank ID / Tank Description:** 2

**Tank Capacity (gallons):** 2,000-gallon (double walled)

**Tank Contents (oil type):** Waste oil

**Inspection Date:**

**Inspector Name & Title:**

### Detailed Inspection Checklist (Check ✓ or X):

- Tank shell, roof, and bottom show no structural defects
- Tank foundation and supports stable and intact
- External corrosion within acceptable limits
- Piping systems, hoses, and connections in good condition
- Valves, alarms, and gauges operational
- Secondary containment capacity and integrity adequate
- Containment walls and floor free of cracks or erosion
- Drainage controls functional and secured
- No history of discharges since last inspection

Summary of Findings / Required Repairs / Follow-Up Actions:

---

Inspector Signature

---

Date

**END OF DOCUMENT**



**PROJECT NEW ROAD  
7442 WARRENTON ROAD  
GUNTERSVILLE, ALABAMA 35741**

**POLLUTION ABATEMENT AND PREVENTION (PAP) PLAN**

**MARSHALL COUNTY, ALABAMA  
UES PROJECT NUMBER: 25-0907**

**FEBRUARY 19, 2026**

**PREPARED BY:**

**UES  
7201 OPPORTUNITY BOULEVARD  
HUNTSVILLE, ALABAMA 35810**



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## Appendices

### Appendix A

- Figure 1 – Site Location Map
- Figure 2 – Site Detail Map
- Figure 3 - Crushing & Screening Process Diagram

### Appendix B

Mulching	Silt Fence
Temporary Seeding	Preservation of Vegetation
Permanent Seeding	Buffer Zone
Construction Entrance	Diversions

### Appendix C

Design Specifications for Sediment Basins on site as prepared and provided by Daniel Field, PE



## 1.0 INTRODUCTION

UES has prepared this Pollution Abatement and Prevention (PAP) Plan for the project New Road (Facility) located within an unincorporated area of Marshall County. The facility is applying for an ADEM NPDES Individual Permit (herein after the "Permit") for discharges from mining and processing (wet or dry) of limestone and areas associated with these activities. ADEM Admin. Code r. 335-6-9-.03 requires all surface mining operations to be conducted "...in such a manner as to minimize their impact on water quality to avoid contravention of applicable water quality standards. To this end, all surface mine operators shall provide the Department with a pollution abatement and/or prevention plan."

This PAP Plan is formatted following the outline given in ADEM Admin. Code r. 335-6-9-.03(2)(a-k). Drawings, as presented in this PAP Plan, were derived from the rules and regulations consistent with ADEM Admin. Code r. 335-6-9, Appendix A, Appendix B, and from the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas Manual Volume 1, 2022*, published by the Alabama Soil and Water Conservation Committee, as well as other generally accepted design data sources.

## 2.0 OWNER/OPERATOR INFORMATION

The site is in Sections 3 and 10 of Township 9 South, Range 2 East of Marshall County, Alabama as shown on the United States Geological Survey (USGS), Arab, Alabama Quadrangle, 7.5 min. Topographic map shown on Figure 1 in Appendix A. Entrance to the site is located on the western side of Warrenton Road, approximately 0.75-mile south of the intersection with Fry Gap Road. Approximate front gate coordinates are 34.2709° north latitude, and -86.4150° west longitude (WGS84).

The permit area is comprised of two Marshall County parcels: 21-02-10-0-000-001.000 and 21-02-03-0-000-025.001. The legal descriptions for each parcel are included below and were taken from the Property Details as accessed via the Marshall Revenue Commissioner's Parcel Viewer website. ([https://isv.kcsgis.com/al.marshall\\_revenue/](https://isv.kcsgis.com/al.marshall_revenue/))

### 21-02-03-0-000-025.001

SE 1/4 SW 1/4 SEC 3, T 9, R 2, CONT 40 ACRES 1355/56 6333/47 6333/51 6333/55 6333/79

### 21-02-10-0-000-001.000

COM @ NE COR 10-9-2; TH S ALG SEC LINE 1045 TO POB; TH SWLY 1765; TH W 2150; TH S 650; TH E 2100; TH S 643; TH W 2090; TH N 190 TO A 30' ROW; TH NWLY ALG ROW 712; TH NNE 130; TH NNW 121; TH SSW 116 TO SAID ROW; TH NWLY ALG ROW 275; TH NNE 40; TH NNW 270 TO E ROW WARRENTON RD; THE NELY ALG ROW 5492; TH E 1333 TO POB CONT 275 AC(C) 6333/47 6333/51 6333/55 6333/79



Landowners of the property are as follows:

BN & L Farms, LP  
6200 Poplar Ave  
Memphis, TN 38119-4713

Reed Materials, LLC (Reed) is the operator that will be conducting mining activities at the Facility. Contact information for individuals with Reed is included below.

Chastin Reed, Owner  
1039 Bean Rock Road  
Union Grove, AL 35175

Dusty Whisenant, Quarry Superintendent  
1039 Bean Rock Road  
Union Grove, AL 35175

### 3.0 GENERAL INFORMATION

The Facility will typically operate from 6:00am to 6:00pm, Monday through Friday and from 6:00am-4:00pm on Saturday. Variations in schedule may be a result of acquisition of large volume orders requiring more production and extended hours of operation or weather, equipment breakdowns, and adequate stockpile quantities requiring less hours. The site will employ ten people to establish and operate the quarry.

Drainage from the central portion of the permitted area drains to the northeast and will be routed to two sediment basins that are associated with permitted outfalls (Outfall 001 and Outfall 002). The northernmost portion of the permitted area will not be disturbed and will remain stabilized. A third sediment basin with an associated outfall (Outfall 003) is planned for the southwest corner of the permitted area.

Once permit coverage has been issued and a sediment basin has been constructed and certified, mining of material will begin south of the crushing plant and will continue south toward the permit boundary. Reed Materials will quarry limestone which will then be processed via mobile crushing and screening equipment to produce assorted sizes of rock that will be sold and transported by trucks to various construction sites in Alabama and Mississippi. Water for the Facility's dust suppression system will be obtained from stormwater that is collected in the sediment basins on site.

Diesel fuel, waste oil, diesel exhaust fluid, and hydraulic fluid will be stored and utilized on site. A Spill Prevention, Control, and Countermeasures (SPCC) Plan has been prepared under separate cover.

### 4.0 TOPOGRAPHIC MAP

Figure 1 in Appendix A shows the permitted and disturbed areas, as well as the site outfall locations and site entrance. Figure 2 in Appendix A shows the location of the crushing and screening operation, as well as the fuel/oil storage area.



## 5.0 METHOD OF DIVERTING SURFACE WATER RUNOFF

Three sediment basins have been designed to provide treatment of stormwater as mining activities progress. Stormwater that collects in the sediment basins will be used for dust suppression on site.

Any runoff from minor areas of disturbance on site that is not directed towards the sediment basin or into the active mining pit will have effective Best Management Practices (BMPs) put in place and maintained until areas are permanently stabilized. BMPs will be selected and maintained according to the *Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas Manual Volume 1, 2022*, published by the Alabama Soil and Water Conservation Committee.

## 6.0 RAW MATERIALS, PROCESSES, AND PRODUCTS

Limestone will be mined at this facility. Blasted rock will be loaded onto offroad trucks and dumped into the feeding unit associated with the primary crusher. Mined material will continue through the processing plant and then be conveyed into stockpiles. Rock sizes shall include various classes of rip rap, surge rock, 1 ½" base, 3/4" base, limestone sand, #78 stone, and #67 stone.

There should be no points of waste origin at the plant site except where the dust control water flows back into a certified sediment basin. Sediment that has collected in sediment basins on site will be removed when the sediment accumulation approaches 60% of the basin's design capacity. Sediment removed from sediment basins will be placed in the spoil piles or mixed with the base products.

## 7.0 SCHEMATIC DIAGRAM

The process flow diagram for the limestone processing plant is included as Figure 3 in Appendix A.

## 8.0 POST TREATMENT QUANTITY AND QUALITY OF EFFLUENT

Three sediment basins have been designed for the site. Stormwater runoff from disturbed areas is treated by a sediment basin designed to detain flows and promote sediment settling prior to discharge in accordance with ADEM Admin. Code r. 335-6-11-.09. The basins will each utilize a subsurface withdrawal outlet that releases water from below the surface, reducing the discharge of floating materials and fine suspended solids.

Discharges shall have a pH within the range of 6.0 to 8.5 standard units and shall not cause the pH of the receiving water to deviate more than one (1.0) standard unit from natural or



background conditions, in accordance with ADEM Admin. Code r. 335-6-10-.09 and the applicable Fish & Wildlife (F&W) water use classification.

## **9.0 WASTE TREATMENT FACILITIES**

Treatment provided by the sediment basins is described in Section 8.0. Each constructed sediment basin will be inspected at least once every seven (7) calendar days and within twenty-four (24) hours following a rainfall event of 0.5 inches or greater. Sediment basins will be maintained and periodically cleaned as necessary to ensure continued treatment effectiveness and compliance with applicable ADEM mining and water quality requirements.

## **10.0 SEDIMENT CONTROL FOR ROADS**

Haul roads will have a sustained grade of 10% or less, with the outer slopes no steeper than 3:1. Haul roads will be mostly on solid rock. Where haul trucks leave solid rock and are on earthen soil, these roads will drain back to the solid rock channels and into the settlement ponds. The surface of the earthen haul roads should be topped with a graded surge size rock; side slopes of the haul roads will be grassed or rocked.

Trucks will exit the quarry onto Warrenton Road. Potential pollutant sources associated with the transportation of material on public roads includes spillage from truck beds and tracking from the tires and undercarriages of the trucks. A construction exit pad will be used to prevent tracking of material onto Warrenton Road via truck tires.

Any observed rock spillage or tracking shall be removed as soon as practicable and no later than the end of the same working day. Mechanical sweeping and/or manual removal shall be utilized as appropriate. If material enters roadside ditches or storm drainage systems, those areas shall be cleaned promptly.

## **11.0 WATER USE CLASSIFICATION**

The facility is located within the Tennessee River watershed, with Outfalls 001 and 002 discharging to an unnamed tributary to Browns Creek, while Outfall 003 discharges to an unnamed tributary to Shiloh Branch. According to ADEM Chapter 335-6-11, the water use classification for these unnamed tributaries is Fish & Wildlife.



## **12.0 NON-POINT SOURCE POLLUTION**

All disturbed areas will be graded so that the drainage will enter a certified sediment basin or the active mining pit. As such, non-point sources of pollution do not result from this project. Any runoff from minor areas of disturbance on site that is not directed toward the sediment basin or mining pit will have effective BMPs put in place. BMPs shall be maintained until areas are permanently stabilized. Permanent erosion control shall be implemented as soon as areas of temporary erosion control are no longer needed. This pit could be active for many decades.

## **13.0 SPILL PREVENTION CONTROL & COUNTERMEASURES PLAN**

A Spill Prevention Control & Countermeasures Plan is provided under separate cover.

## **14.0 RUNOFF CALCULATIONS**

Runoff calculations are included with the sediment basin design details in Appendix C.

## **15.0 RECLAMATION PROCEDURE**

As mining activities are completed, the area will be top-dressed to eliminate any piles of dirt, stone, or low areas. Stabilization measures will be implemented pursuant to the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas Manual Volume 1, 2022*, published by the Alabama Soil and Water Conservation Committee.

## **16.0 BMPs**

Please see Section V for information regarding the designed sediment basins, as well as other BMPs that will be used at the Facility.

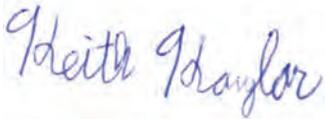
## **17.0 SETBACKS/BUFFERS**

The disturbed area was purposefully selected to incorporate a 50-ft setback from nearby waters. Methods for marking the setback include, but will not be limited to, flagging, spray paint, and silt fence.



## 18.0 PE CERTIFICATION

"I certify on behalf of the applicant, that I have completed an evaluation of discharge alternatives (Item XVIII) for any proposed new or increased discharges of pollutant(s) to Tier 2 waters and reached the conclusions indicated. I certify under penalty of law that technical information and data contained in this application, and a comprehensive PAP Plan including any attached SPCC plan, maps, engineering designs, etc. acceptable to ADEM, for the prevention and minimization of all sources of pollution in stormwater and authorized related process wastewater runoff has been prepared under my supervision for this facility utilizing effective, good engineering and pollution control practices and in accordance with the provisions of ADEM Admin. Code Division 335-6 , including Chapter 335-6-9 and Appendices A & B. If the PAP Plan is properly implemented and maintained by the Permittee, discharges of pollutants can reasonably be expected to be effectively minimized to the maximum extent practicable and according to permit discharge limitations and other permit requirements. The applicant has been advised that appropriate pollution abatement/prevention facilities and structural & nonstructural management practices or Department approved equivalent management practices as detailed in the PAP Plan must be fully implemented and regularly maintained as needed at the facility in accordance with good sediment, erosion, and other pollution control practices, permit requirements, and other ADEM requirements to ensure protection of groundwater and surface water quality.



Keith Kaylor  
Alabama P.E. License #23588



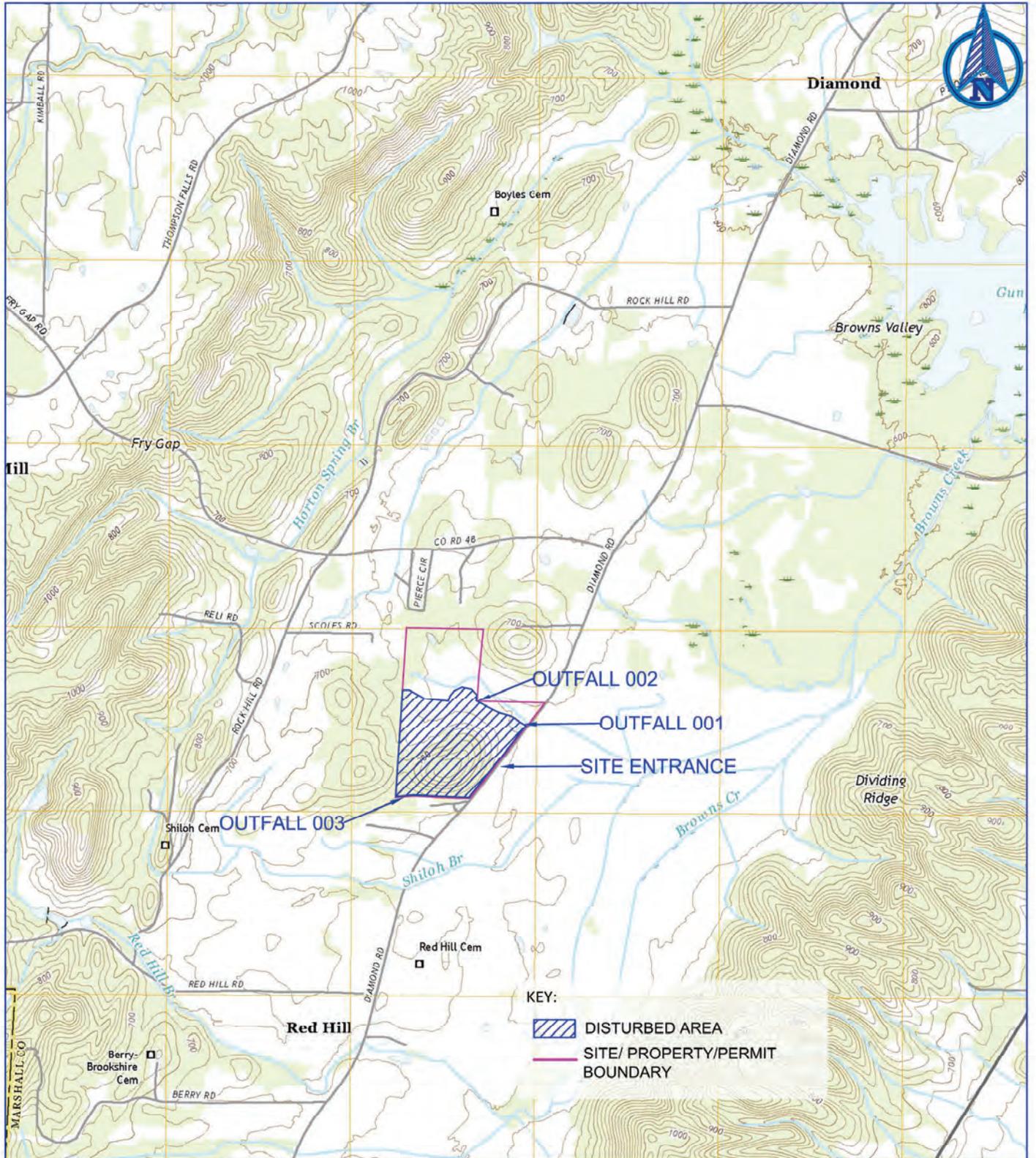
February 19, 2026



## **APPENDIX A**

### **FIGURES**





PROJECT NEW ROAD  
 REED MATERIALS  
 GUNTSVILLE, ALABAMA

SITE LOCATION MAP



Universal Engineering Sciences, LLC

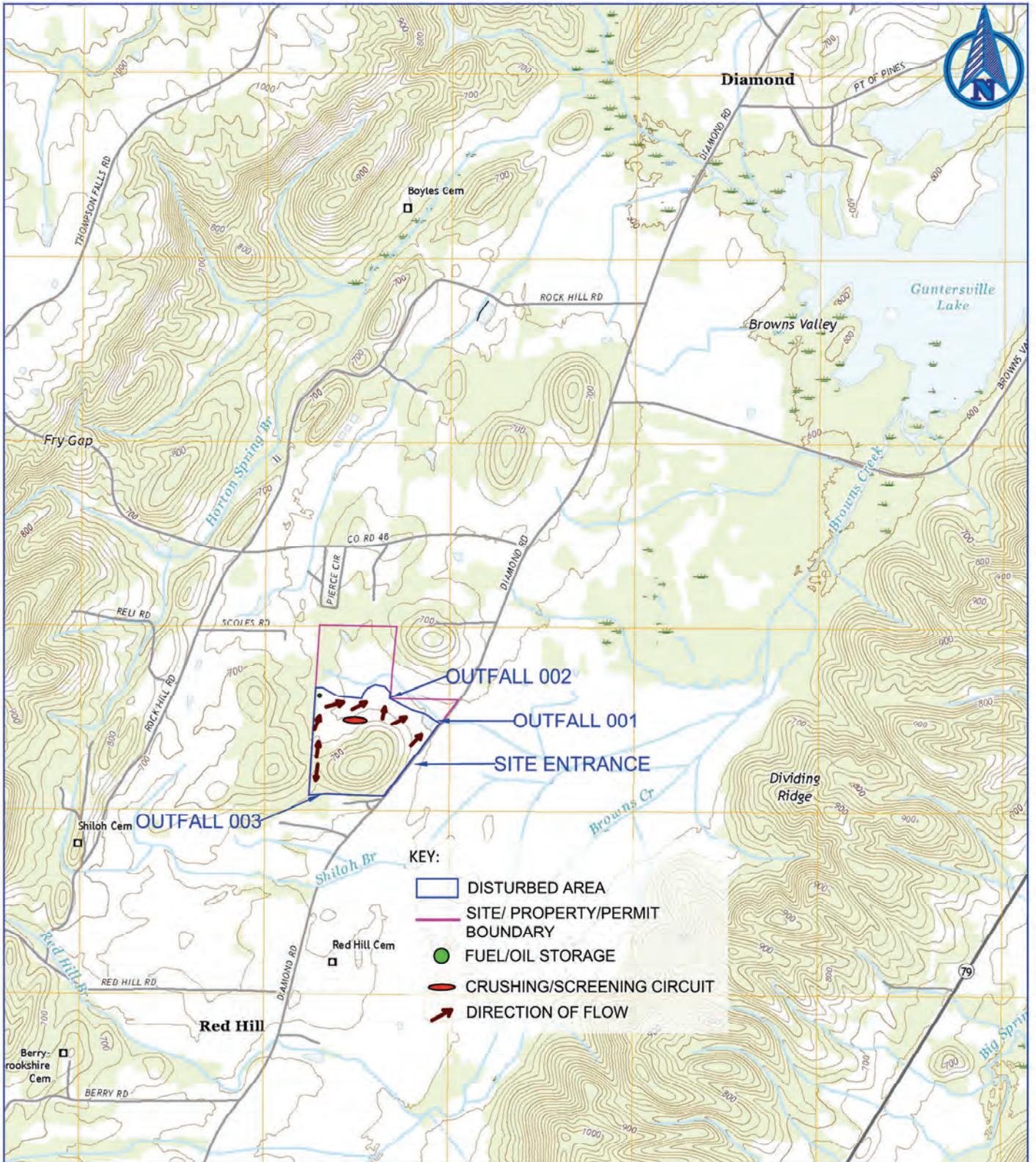
7201 Opportunity Boulevard  
 Huntsville, Alabama 35810  
 PH (256)837-6708  
 FX (256)837-6702

SCALE: 1":2,500'

PROJ. #: 25-0907

DATE: 02/19/2026

FIGURE 1



PROJECT NEW ROAD  
 REED MATERIALS  
 GUNTERSVILLE, ALABAMA

SITE DETAIL MAP



Universal Engineering Sciences, LLC

7201 Opportunity Boulevard  
 Huntsville, Alabama 35810  
 PH (256)837-6708  
 FX (256)837-6702

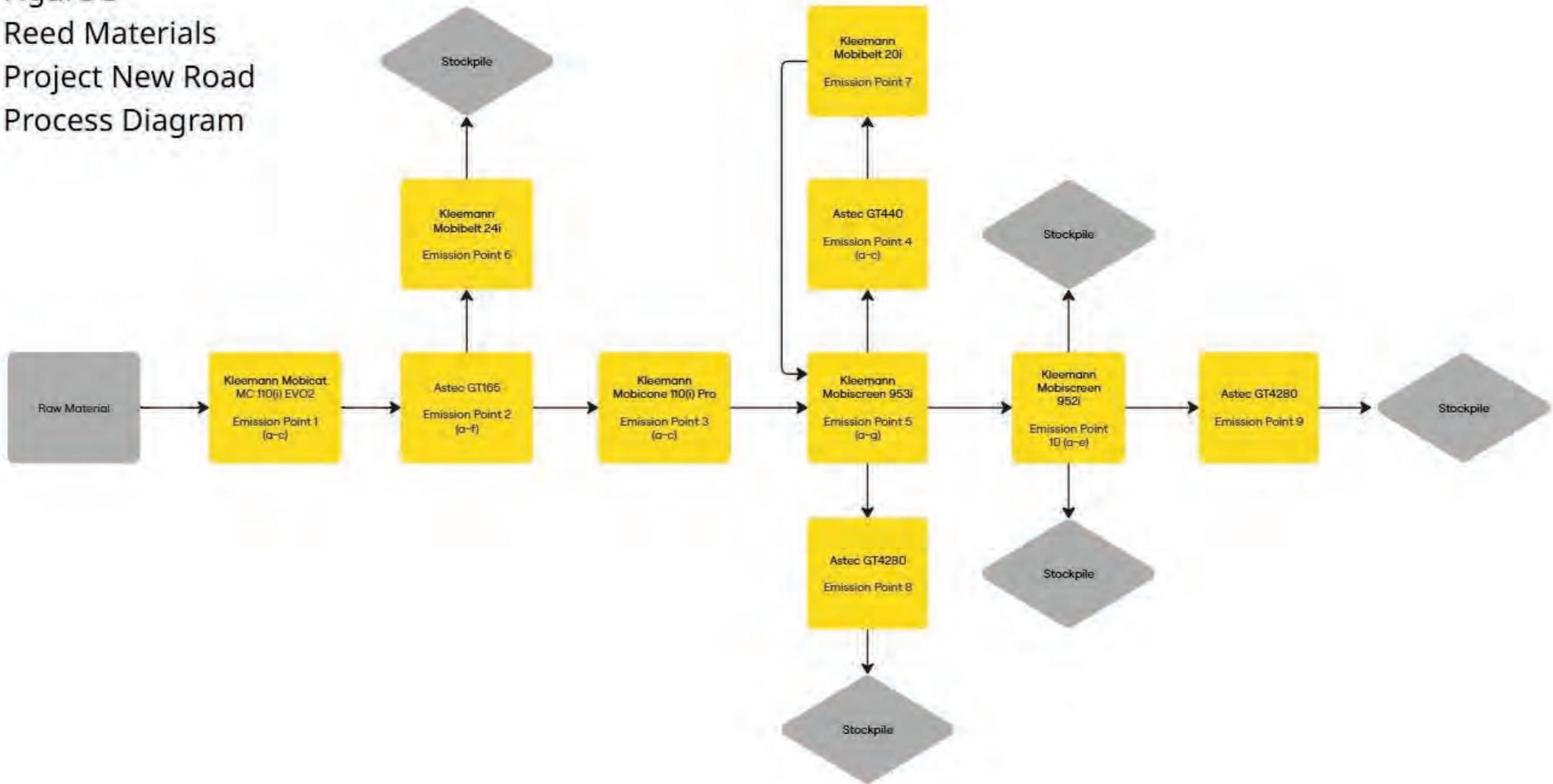
SCALE: 1":2,500'

PROJ. #: 25-0907

DATE: 02/19/2026

FIGURE 2

Figure 3  
Reed Materials  
Project New Road  
Process Diagram



## **APPENDIX B**

### **BMP TYPICALS**



## Mulching (MU)



### Practice Description

Mulching is the application of plant residues such as straw or other suitable materials to the soil surface to minimize erosion. Mulching is used to support permanent and temporary seeding and, also, to provide short-term cover without seeding.

### Typical Components of the Practice

- Site Preparation
- Application of Material
- Installation Verification
- Maintenance

### Installation

Mulching should be designed by a qualified design professional and plans and specifications should be made available to field personnel prior to start of construction.

#### *Site Preparation*

Divert runoff water from areas above the site that will be mulched.

Remove stumps, roots and other debris from the construction area.

Grade area as needed to permit the use of equipment for seeding, mulching and maintenance. Shape area so that it is relatively smooth.

If the area will be seeded, follow seeding specifications in the design plan and apply mulch immediately after seeding.

### ***Application of Material***

Spread straw mulch, preferably cereal grain, uniformly over the area with a power blower, hydroseeder or by hand. Mulch should be uniformly spread and not clumped in piles. In a seeded area, about 25% of the ground surface should be visible after mulching. It is important when mulching a seeded area that an excessive quantity of straw is not applied – too much mulch will retard or reduce the future stand. When mulch is used for erosion control without seeding, 100% of the soil surface should be covered.

Hydraulic Erosion Control Products (HECPs) as defined by the Erosion Control Technology Council (ECTC) are also used for mulch and should be applied with the appropriate equipment and at the recommended or specified rates.

Apply mulches at the rates shown in the plan or in Table MU-1 if there is not a plan.

Anchor straw or wood cellulose mulch by one of the following methods:

- Crimp with a mulch anchoring tool, as near on the contour as practical, to punch the straw into the soil.
- Tack with a liquid tackifier designed to hold mulch in place. Use suitable spray equipment and follow manufacturer's recommendations.
- In more erosive areas, cover with netting, using a degradable natural or synthetic mesh. The netting should be anchored according to manufacturer's specifications (see Erosion Control Blanket practice).
- On steep slopes and other areas needing a higher degree of protection, use heavy natural nets without additional mulch, synthetic netting with additional mulch or erosion control mats/blankets. These areas include grassed waterways, swales and diversion channels.
- Install netting and mats/blankets according to manufacturer's specifications making sure materials are properly anchored (see Erosion Control Blanket). Verify wildlife friendly netting when specified.

Table MU-1 Mulching Materials and Application Rates

<b>Material</b>	<b>Rate Per Acre and (Per 1000 ft.<sup>2</sup>)</b>	<b>Notes</b>
<b>Straw (with Seed)</b>	1 ½ - 2 tons (70 lbs - 90 lbs)	Spread by hand or machine; anchor when subject to blowing.
<b>Straw Alone (no seed)</b>	2 ½ - 3 tons (115 lbs - 160 lbs)	Spread by hand or machine; anchor when subject to blowing.
<b>Wood Chips</b>	5-6 tons (225 lbs - 270 lbs)	Treat with 12 lbs. nitrogen/ton.
<b>Bark</b>	35 cubic yards (0.8 cubic yard)	Can apply with mulch blower.
<b>Pine Straw</b>	1-2 tons (45 lbs - 90 lbs)	Spread by hand or machine; will not blow like straw.
<b>Peanut Hulls</b>	10-20 tons (450 lbs - 900 lbs)	Will wash off slopes. Treat with 12 lbs. nitrogen/ton.
<b>HECPs</b>	0.75 – 2.25 tons (35 lbs – 103 lbs)	Refer to ECTC or Manufacturer's Specifications.

**Installation Verification**

Check materials and installation for compliance with specifications.

**Common Problems**

*Consult with qualified design professional if either of the following occurs:*

- Variations in topography on site indicate the mulching materials will not function as intended; changes in plan may be needed.
- Design specifications for mulching materials or seeding requirements cannot be met; substitution may be required. Unapproved substitutions could result in erosion or seeding failure.

*Problems that require remedial actions:*

- Erosion, washout, and poor plant establishment; repair eroded surface, reseed, re-mulch and anchor mulch.
- Mulch is lost to wind or stormwater runoff; reapply mulch and anchor appropriately by crimping, netting, or tacking.

## **Maintenance**

Inspect all mulched areas periodically and after rainstorms for erosion and damage to the mulch. Repair promptly and restore to original condition. Continue inspections until vegetation is well established. Keep mower height high if netting is used to prevent netting from wrapping around mower blades or shaft.

## Permanent Seeding (PS)



### Practice Description

Permanent seeding is the establishment of perennial vegetation from seed. This practice is used when vegetation is desired and appropriate to permanently stabilize the soil.

### Typical Components of the Practice

- Scheduling
- Seedbed Preparation
- Applying Soil Amendments (lime and fertilizer)
- Planting
- Mulching or Installation of Erosion Control Blanket
- Installation Verification
- Maintenance

### Installation

Prior to start of construction, plant materials, seeding rates and planting dates should be specified by a qualified design professional. Plans and specifications should be referred to by field personnel throughout the installation process.

Permanent seeding should be made during the specified planting period whenever possible. When sites are only available for planting outside of the recommended planting period, either an out-of-season permanent seeding, a temporary seeding, mulching or chemical stabilization should be applied. If lime and fertilizer application rates are not specified, take soil samples during final grading from the top 6" in each area to be seeded. Submit samples to a soil testing laboratory for lime and fertilizer recommendations.

### ***Scheduling***

The schedule for work at the site should consider the recommended planting period and whenever practical the site work should accommodate seeding during the recommended planting period.

### ***Seedbed Preparation***

Grade and loosen the soil to a smooth firm surface to enhance rooting of seedlings and reduce rill erosion. Break up large clods and loosen compacted, hard or crusted soil surfaces with a disk, ripper, chisel, harrow or other tillage equipment. Avoid preparing the seedbed under excessively wet conditions to minimize compaction. Operate the equipment on the contour.

For either broadcast seeding or drill seeding, the tillage, as a minimum, should adequately loosen the soil to a depth of at least 6", alleviate compaction, and smooth and firm the soil for the proper placement of seed.

For no-till drilling, the soil surface should not be loosened unless the site has surface compaction and if compaction exists, special care with soil loosening will be needed to retain the desired residue on the soil surface.

Incorporate lime and fertilizer to a depth of at least 6" with a disk or rotary tiller on slopes of up to 3:1. On steeper slopes, lime and fertilizer may be applied to the surface without incorporation. Lime and fertilizer may be applied through hydroseeding equipment; however, fertilizer should not be added to the seed mixture during hydroseeding. Liming materials such as liquid lime may be added with the seed mixture.

### **Liming**

Follow the design plan or soil test recommendation. If a plan or soil test is not available, use 2 tons/acre of ground agricultural lime on clayey soils (approximately 90 lbs/acre) and 1 ton/acre on sandy soils (approximately 45 lbs/acre). Exception to situation without a design or a soil test: If the cover is tall fescue and clover, use 2 tons of agricultural lime (approximately 135 lbs/1000 ft<sup>2</sup>) on both clayey and sandy soils.

Spread the specified amount of lime and incorporate into the top 6" of soil after applying fertilizer.

## Fertilizing

Apply a complete fertilizer at rates specified in the design plan or as recommended by soil tests. In the absence of soil tests, use the following as a guide:

### Grass Alone

Use 8-24-24 or equivalent – apply 400 lbs/acre (approximately 9 lbs/1000 ft<sup>2</sup>) starting. When vegetation has emerged to a stand and is growing, 30 lbs/acre (approximately 0.8 lbs/10000 ft<sup>2</sup>) of additional nitrogen fertilizer should be applied.

### Grass-Legume Mixture

Use 5-10-10 or equivalent – apply 800 - 1200 lbs/acre (approximately 18 – 27 lbs/1000 ft<sup>2</sup>).

### Legume Alone

Use 0-20-20 or equivalent – apply 400 - 600 lbs/acre (approximately 9 – 14 lbs/1000 ft<sup>2</sup>) at planting.

*Note: Fertilizer can be blended to meet exact fertilizer recommendations. Take soil test recommendations to local fertilizer dealer for bulk fertilizer blends. This may be more economical than bagged fertilizer.*

## **Planting**

Plant the species specified in the plan at the rate and depth specified. In the absence of plans and specifications, plant species and seeding rates may be selected by qualified persons using Figure PS-1 and Table PS-1.

Apply seed uniformly using a cyclone seeder, drop-type spreader, drill, cultipacker seeder or hydroseeder.

When using a drill seeder, plant grasses and legumes ¼” to ½” deep. Calibrate equipment in the field.

When planting by methods other than a drill seeder, cover seed by raking, or dragging a chain, brush, or mat. Then firm the soil lightly with a roller. Seed can also be covered with hydro-mulched wood fiber and tackifier. Legumes require inoculation with nitrogen-fixing bacteria to ensure good growth. Purchase inoculum specific for the seed and mix with seed prior to planting.

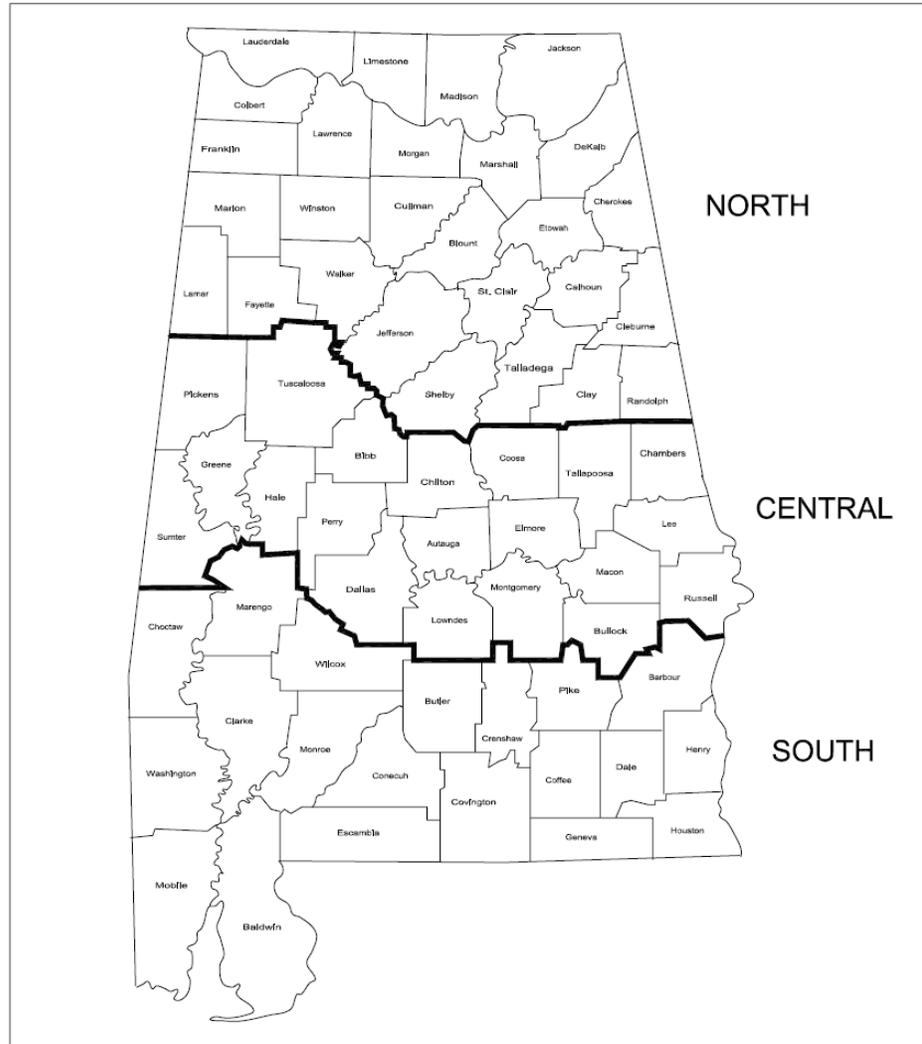


Figure PS-1 Geographical Areas for Species Adaptation

*Note: Site conditions related to soils and aspect in counties adjacent to or close to county boundaries may justify adjustments in adaptable areas by qualified design professionals.*

**Mulching**

Mulching is extremely important for successful seeding. Whether the mulching material is straw or a hydraulic erosion control product (HECP, also referred to as hydromulch), the material needs to be applied properly. Uniformly spread organic mulches by hand or with a mulch blower at a rate which provides about 75% ground cover. Spread HECPs utilizing appropriate equipment and at rates as specified in the plan or by the manufacturer. Caution, an over-application of wheat straw will reduce stand success – do not over-apply wheat straw when mulching a seeding! (See Mulching practice for more details).

Table PS-1 Commonly used Plants for Permanent Cover with Seeding Rates and Dates<sup>1</sup>

Species	Seeding Rates/Ac PLS <sup>2</sup>	North	Central	South
		Seeding Dates		
<b>Bahiagrass, Pensacola</b>	40 lbs	--	Mar 1-Jul y 1	Feb 1-Nov 1
<b>Bermudagrass, Common</b>	10 lbs	Apr 1-July 1	Mar 15-July 15	Mar 1-July 15
<b>Bahiagrass, Pensacola Bermudagrass, Common</b>	30 lbs 5 lbs	--	Mar 1-July 1	Mar 1-July 15
<b>Bermudagrass, Hybrid (Lawn Types)</b>	Solid Sod	Anytime	Anytime	Anytime
<b>Bermudagrass, Hybrid (Lawn Types)</b>	Sprigs 1/sq ft	Mar 1-Aug 1	Mar 1-Aug 1	Feb 15 - Sep 1
<b>Fescue, Tall</b>	40-50 lbs	Sep 1-Nov 1	Sep 1-Nov 1	--
<b>Sericea</b>	40-60 lbs	Mar 15-July 15	Mar 1-July 15	Feb 15 -July 15
<b>Sericea &amp; Common Bermudagrass</b>	40 lbs 10 lbs	Mar 15 -July 15	Mar 1-July 15	Feb 15-July 15
<b>Switchgrass, Alamo</b>	4 lbs	Apr 1-Jun 15	Mar 15-Jun 15	Mar 15-June 15

- 1 DO NOT USE Seeding Rates as part of a mixture unless shown as a mixture in this table.
- 2 PLS means Pure Live Seed and is used to adjust seeding rates. For example, to plant 10 lbs PLS of a species with germination of 80% and purity of 90%, PLS= 0.8 X 0.9 = 72%. 10lbs PLS = 10/0.72 = 13.9 lbs of the species to be planted.

### Hydroseeding

Surface roughening is particularly important when hydroseeding, as roughened slope will provide some natural coverage for lime, fertilizer, and seed. The surface should not be compacted or smooth. Smooth seedbed preparation is not necessary for hydroseeding operations; large clods, stones, and irregularities provide cavities in which seeds can lodge.

Mix seed, inoculant if required, and a seed carrier with water and apply as a slurry uniformly over the area to be treated. The seed carrier should be a cellulose fiber, natural wood fiber or cane fiber mulch material which is dyed an appropriate color to facilitate uniform application of seed. If adding a legume, and it does not have an inoculant included in the coating, include the correct legume inoculant at 4 times the recommended rate when adding seed to the hydroseeder slurry. The mixture should be applied within one hour after mixing to reduce damage to seed.

Fertilizer should not be mixed with the seed-inoculant mixture because fertilizer salts may damage seed and reduce germination and seedling vigor.

Fertilizer may be applied with a hydroseeder as a separate operation after seedlings are established.

Agricultural lime is usually applied as a separate operation and spread in dry form. It is not normally applied with a hydraulic seeder because it is abrasive and, also, may clog the system. On the other hand, liquid lime is applied with a hydraulic seeder but because of cost is used primarily to provide quick action for benefit of plants during their seedling stage with the bulk of liming needs to be provided by agricultural lime. Dry lime may be applied with the fertilizer mixture.

### ***Installation Verification***

Check materials and installation for compliance with specifications during installation of products.

### **Common Problems**

*Consult with a qualified design professional if the following occurs:*

- Design specifications for seed variety, seeding dates or mulching cannot be met; substitutions may be required. Unapproved substitutions could lead to failure.
- Seeding at the wrong time of the year results in an inadequate stand. Reseed according to specifications of a qualified design professional (see recommendations under Maintenance)
- Inadequate mulching results in an inadequate stand, bare spots, or eroded areas - prepare seedbed, reseed, cover seed evenly and tack or tie down mulch, especially on slopes, ridges and in channels (see recommendations under Maintenance).

### **Maintenance**

Generally, a stand of vegetation cannot be determined to be fully established until vegetative cover has been maintained for 1 year from planting.

#### **Reseeding**

Inspect seedlings monthly for stand survival and vigor. Also, inspect the site for erosion.

If stand is inadequate identify the cause of failure (choice of plant materials, lime and fertilizer quantities, poor seedbed preparation or weather) and take corrective action. If vegetation fails to grow, have the soil tested to determine whether pH is in the correct range or nutrient deficiency is a problem.

Stand conditions, particularly the coverage, will determine the extent of remedial actions such as seedbed preparation and reseeded. A qualified design professional should be consulted to advise on remedial actions. Consider drill seeding where possible.

Eroded areas should be addressed appropriately by filling and/or smoothing, and reapplication of lime, fertilizer, seed, and mulch.

### Fertilizing

Satisfactory establishment may require fertilizing the stand in the second growing season. Follow soil test recommendations or the specifications provided to establish and maintain the planting. After the second year, fertilizing is often needed annually or periodically to maintain a healthy stand and cover sufficient for erosion control.

### Mowing

Mow vegetation on structural practices such as embankments and grass-lined channels to prevent woody plants from invading.

Other areas should be mowed to compliment the use of the site.

Certain species can be weakened by mowing regimes that significantly reduce their food reserves stored for the next growing season: fescue should not be mowed close during the summer; sericea should not be mowed close in late summer.

Bermudagrass and bahiagrass are tolerant of most mowing regimes and can be mowed often and close, if so desired, during their growing season.

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## Preservation of Vegetation (PV)



### Practice Description

Preservation of vegetation is the avoidance of an area during land disturbing and construction activity to prevent mechanical and other injury to desirable plants in the planned landscape. The practice provides erosion and sediment control and is applicable where vegetative cover is desired and the existing plant community is compatible with the planned landscape.

### Typical Components of the Practice

- Mark Plant Area for Retention
- Plant Protection
- Treating Damaged Plants
- Practice Verification
- Maintenance

### Installation

Preservation requirements should be designed by a qualified design professional and plans should be made available to field personnel prior to start of construction

### **Mark Plant Area for Retention**

Clearly indicate the areas to be avoided by marking with tape (flagging), barricade netting or other appropriate means.

### **Plant Protection**

Protect plants that are identified for preservation from compaction by equipment, cutting and filling operations, trenching, and tunneling.

### **Treating Damaged Plants**

Treat damaged trees and shrubs as soon after damage as practical. Treatment may include shaping a wound for proper healing, pruning of jagged roots, pruning of damaged limbs and fertilization to enhance growth.

### **Practice Verification**

Check to determine that specifications are met as the areas are identified for retention, as the plants are protected during construction and that damaged plants are treated or replaced.

## **Common Problems**

*Consult with a qualified design professional if any of the following occur:*

- Soil compaction appears to be retarding plant growth or affecting plant health.
- Damage to plants appears to be severe and life threatening.
- Plants appear of poor quality and are undesirable for retention.

*Problems during construction that require remedial actions:*

- Erosion – eroded areas should be vegetated to grass or a suitable ground cover.
- Severely damaged trees, shrubs or vines should be replaced.

## **Maintenance**

Enhance and maintain plant growth and health according to the maintenance plan. This may involve applying fertilizer, spreading mulch and pruning trees and shrubs.

## \_\_\_\_\_ Installation and Maintenance of Best Management Practices

Replace dead plants as needed to maintain desired landscape cover. Additional information about plantings is found in the following practices: Permanent Seeding: Shrub, Vine and Groundcover Planting: and Tree Planting on Disturbed Areas.

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## Temporary Seeding (TS)



### Practice Description

Temporary seeding is the establishment of fast-growing annual vegetation from seed. Temporary vegetation provides economical erosion control for up to a year and reduces the amount of sediment moving off the site.

This practice applies where short-lived vegetation can be established before final grading or in a season not suitable for planting the desired permanent species. It helps prevent costly maintenance operations on other practices such as sediment basins and sediment barriers. In addition, it reduces problems of mud and dust production from bare soil surfaces during construction. Temporary or permanent seeding is necessary to protect earthen structures such as dikes, diversions, grass-lined channels and the banks and dams of sediment basins.

### Typical Components of the Practice

- Scheduling
- Seedbed Preparation
- Applying Soil Amendments (lime and fertilizer)
- Planting
- Mulching or Installation of Erosion Control Blanket
- Installation Verification
- Maintenance

## **Installation**

Prior to start of installation, plant materials, seeding rates and planting dates should be specified by a qualified design professional. Plans and specifications should be referred to by field personnel throughout the installation process.

Plantings should be made during the specified planting period if possible. When sites become available to plant outside of the recommended planting period, either a temporary seeding, mulching or chemical stabilization should be applied. If lime and fertilizer application rates are not specified, take soil samples during final grading from the top 6" in each area to be seeded. Submit samples to a soil testing laboratory for lime and fertilizer recommendations.

### ***Seedbed Preparation***

Grade and loosen soil to a smooth firm surface to enhance rooting of seedlings and reduce rill erosion. If compaction exists, loosen the surface to 6" to 8". Break up large clods and loosen compacted, hard or crusted soil surfaces with a disk, ripper, chisel, harrow or other tillage equipment. Avoid preparing the seedbed under excessively wet conditions to minimize soil compaction. Operate the equipment on the contour.

For either broadcast seeding or drill seeding, loosen the soil to a depth of at least 6".

For no-till drilling, the soil surface does not need to be loosened unless the site has surface compaction. If shallow compaction exists, the area should be chiseled across the slope at least 6". If compaction exists between 6" and 12" the area should be chiseled or subsoiled at least 12".

Lime and fertilizer should be incorporated during seedbed preparation.

### ***Applying Soil Amendments***

#### **Liming**

Follow the design plan or soil test recommendation. If a plan or soil test is not available, use 2 tons/acre of ground agricultural lime on clayey soils (approximately 90 lbs/1,000 ft<sup>2</sup>.) and 1 ton/acre on sandy soils (approximately 45 lbs/ft<sup>2</sup>).

Spread the specified amount of lime and incorporate into the upper 6" of soil following seedbed preparation and applying fertilizer.

Agricultural lime is usually applied as a separate operation and spread in dry form. It is not normally applied with a hydraulic seeder because it is abrasive and, also, may clog the system. On the other hand, liquid lime is applied with a hydraulic seeder but because of cost, liquid lime is used primarily to provide quick action for benefit of plants during their seedling stage with the bulk of

liming needs to be provided by agricultural lime. Dry lime may be applied with the fertilizer mixture.

### Fertilizing

Apply a complete fertilizer at rates specified in the design plan or as recommended by soil tests. In the absence of soil tests, use the following as a guide:

8-24-24 or equivalent – apply 400 lbs/acre (approximately 9 lbs/1000 ft<sup>2</sup>) at planting.

When vegetation has emerged to a stand and is growing, 30 to 40 lbs/acre (approximately 0.8 lbs/1000 ft<sup>2</sup>) of additional nitrogen fertilizer should be applied.

*Note: Fertilizer can be blended to meet exact fertilizer recommendations. Take soil test recommendations to local fertilizer dealer for bulk fertilizer blends. This may be more economical than bagged fertilizer.*

Incorporate lime and fertilizer to a depth of at least 6” with a disk or rotary tiller on slopes of up to 3:1.

On steeper slopes, lime and fertilizer may be applied to the surface without incorporation. Lime and fertilizer may be applied together; however, fertilizer should not be added to the seed mixture during hydroseeding. Lime may be added with the seed mixture.

### Planting

Plant the species specified in the plan at the rate and depth specified. In the absence of plans and specifications, plant species and seeding rates may be selected by qualified persons from Table TS-1.

Apply seed uniformly using a cyclone seeder, drop-type spreader, drill, drill seeder, cultipacker seeder, by hand, or with a hydroseeder on a fresh, firm friable seedbed.

When using a drill seeder, plant seed ¼” to ½” deep. Calibrate equipment in the field.

When planting by methods other than a drill seeder or hydroseeder, cover seed by raking, or dragging a chain, brush, or mat. Then firm the soil lightly with a roller. Seed can also be covered with a hydromulch product.

Cover broadcast seed by raking or chain dragging; then firm the surface with a roller or cultipacker to provide good seed contact. Small grains should be planted no more than 1” deep and grasses and legume seed no more than ½” deep.

Table TS-1 Commonly Used Plants for Temporary Cover<sup>1</sup>

Species	Seeding Rate/Ac PLS <sup>2</sup>	North	Central	South
		Seeding Dates		
<b>Millet, Browntop or German</b>	40 lbs	May 1-Aug 1	Apr 1-Aug 15	Apr 1-Aug 15
<b>Rye</b>	3 bu	Sept 1-Nov 15	Sept 15-Nov 15	Sept 15-Nov 15
<b>Ryegrass</b>	30 lbs	Aug 1-Sept 15	Sept 1-Oct 15	Sept 1 -Nov 15
<b>Sorghum-Sudan Hybrids</b>	40 lbs	May 1-Aug 1	Apr 15-Aug 1	Apr 1-Aug 15
<b>Sudangrass</b>	40 lbs	May 1-Aug 1	Apr 15-Aug 1	Apr 1-Aug 15
<b>Wheat Common</b>	3 bu	Sept 1-Nov 1	Sept 15-Nov 15	Sept 15-Nov 15
<b>Common Bermudagrass</b>	10 lbs	Apr 1-July 1	Mar 15-July 15	Mar 1-July 15
<b>Crimson Clover</b>	10 lbs	Sept 1-Nov 1	Sept 1-Nov 1	Sept 1-Nov 1

1 DO NOT USE Seeding Rates as part of a mixture unless shown as a mixture in this table.

2 PLS means Pure Live Seed and is used to adjust seeding rates. For example, to plant 10 lbs PLS of a species with germination of 80% and purity of 90%, PLS =  $0.8 \times 0.9 = 72\%$ . 10lbs PLS =  $10/0.72 = 13.9$  lbs of the species to be planted.

## Hydroseeding

Surface roughening is particularly important when hydroseeding, as roughened slope will provide some natural coverage for lime, fertilizer, and seed. The surface should not be compacted or smooth. Fine seedbed preparation is not necessary for hydroseeding operations; large clods, stones, and irregularities provide cavities in which seeds can lodge.

Mix seed, inoculant if required, and a seed carrier with water and apply as a slurry uniformly over the area to be treated. The seed carrier should be a cellulose fiber, natural wood fiber or cane fiber mulch material which is dyed an appropriate color to facilitate uniform application of seed. Use the correct legume inoculant at 4 times the recommended rate when adding inoculant to a hydroseeder slurry. The mixture should be applied within one hour after mixing to reduce damage to seed.

Fertilizer should not be mixed with the seed-inoculant mixture because fertilizer salts may damage seed and reduce germination and seedling vigor. Fertilizer may be applied with a hydroseeder as a separate operation after seedlings are established.

Whenever possible, it is often best to incorporate lime and fertilizer with a disk.

### **Mulching**

Mulching is extremely important for successful seeding. Whether the mulching material is straw or a hydraulic erosion control product (HECP, also referred to as hydromulch), the material needs to be applied properly. Uniformly spread organic mulches by hand or with a mulch blower at a rate which provides about 75% ground cover. Spread HECPs utilizing appropriate equipment and at rates as specified in the plan or by the manufacturer. Caution, an over-application of straw mulch (wheat, oat, or rye) will reduce stand success – do not over-apply straw mulch when mulching a seeding! (*See Mulching practice for more details*). In lieu of mulch, erosion control blanket may be used (see Erosion Control Blanket practice for more details).

### **Installation Verification**

Check materials and installation for compliance with specifications during installation of products.

### **Common Problems**

*Consult with a qualified design professional if the following occurs:*

- Design specifications for seed variety, seeding dates or mulching cannot be met; substitutions may be required. Unapproved substitutions could lead to failure.
- Seeding outside of the recommended results in an inadequate stand. Reseed according to specifications of a qualified design professional (see recommendations under Maintenance).

### **Maintenance**

#### **Reseeding**

Inspect seedings weekly until a stand is established and thereafter at least monthly for stand survival and vigor. Also, inspect the site for erosion.

Eroded areas should be addressed appropriately by filling and/or smoothing, and reapplication of lime, fertilizer, seed, and mulch.

A stand should be uniform and dense for best results. Stand conditions, particularly the coverage, will determine the extent of remedial actions such as seedbed preparation and reseeding. A qualified design professional should be consulted to advise on remedial actions. Consider drill seeding when doing a remedial planting.

### Fertilizing

If vegetation fails to grow, have the soil tested to determine whether pH is in the correct range or nutrient deficiency is a problem.

Satisfactory establishment may require re-fertilizing the stand, especially if the planting is made early in the planting season. Follow soil test recommendations or the specifications provided to establish the planting.

### Mowing

Temporary plantings may be mowed and baled or simply mowed to compliment the use of the site.

Millet, sorghum-sudan hybrids, sudangrass, rye and wheat may be mowed, but no lower than 6" (closer mowing may damage the stand).

Ryegrass is tolerant of most mowing regimes and may be mowed often and as close as 4" to 6" if this regime is started before it attains tall growth (over 8").

Bermudagrass is tolerant of most mowing regimes and can be mowed often and close, if so desired, during its growing season.

## Construction Exit Pad (CEP)



### Practice Description

A construction exit pad is a stone base pad or manufactured product designed to provide a buffer area where mud and caked soil can be removed from the tires of construction vehicles to avoid transporting it onto public roads. This practice applies anywhere traffic will be leaving a construction site and move directly onto a public road or street.

### Typical Components of the Practice

- Site Preparation
- Grading
- Stabilization with Geotextile Fabric (where needed to provide stability)
- Aggregate Placement
- Construction Verification
- Maintenance

### Construction

Prior to start of construction, temporary gravel construction entrance/exit pads should be designed by a qualified design professional and plans and specifications should be available to field personnel.

### **Site Preparation**

Remove all vegetation and other unsuitable material from the foundation area.

### **Grading**

Grade and crown the area for positive drainage.

Utilize a diversion to direct any surface flow away from the construction exit pad.

Install pipe under the pad if needed to maintain drainage ditches along public roads.

Divert all construction exit pad runoff and drainage to a sediment trap or basin.

### **Stabilization**

If project specified, or if wet conditions or soft soils are anticipated, place non-woven geotextile fabric on the graded foundation prior to placing the aggregate to improve stability.

### **Aggregate Placement**

Place specified stone size to lines and grade shown on plans. Leave surface smooth and sloped for drainage.

### **Construction Verification**

Check all components during construction and installation to ensure that specifications are being met for the components.

## **Common Problems**

*Consult with a qualified design professional if any of the following occur:*

- Inadequate runoff control and sediment washes onto public road: install diversions or other runoff control measures.
- Ruts and muddy conditions develop as stone are pressed into soil; increase stone size or pad thickness, or add geotextile fabric.
- Pad too short for heavy construction traffic: consult design professional about extending pad to the necessary length.

## **Maintenance**

Remove large chunks of mud or caked soil from construction exit pad daily to minimize sediment buildup.

Inspect stone pad and sediment disposal area weekly and after storm events or heavy use.

Reshape pad as needed for drainage and runoff control.

Top-dress with clean specified stone as needed to maintain effectiveness of the practice.

Immediately remove mud or sediment tracked or washed onto public road.  
Repair any broken road pavement immediately.

Remove unneeded exit pad materials from areas where permanent vegetation will be established.

## Sediment Barrier (SB)



### Practice Description

A sediment barrier is a temporary sediment control practice installed downstream of a disturbed area intended to remove large-sized suspended sediment from sheet flow runoff by facilitating settling and to a lesser extent filtration. The most commonly used sediment barrier is a silt fence made up of a geotextile fabric that is anchored into the ground and attached to supporting posts and possibly reinforced with a wire fence or polypropylene netting. Other barrier materials could include sand bags, wattles, and various man-made materials and devices that can be used in a similar manner as a silt fence.

This practice applies downstream of small disturbed areas that yield runoff volumes less than the design storage volume. Barriers intercept runoff from upslope to form impoundments that temporarily detain runoff and allow sediment to settle out of the water and remain on the construction site.

### Typical Components of the Practice

- Site Preparation
- Installation
- Erosion Control
- Construction Verification
- Maintenance

## Construction

Prior to start of construction, sediment barriers should be designed by a qualified professional. Plans and specifications should be referred to by field personnel throughout the construction process.

*Note: Silt fence is the only barrier installation being covered in this handbook.*

### **Site Preparation**

Determine exact location of underground utilities so that locations for digging or placement of stakes can be selected where utilities will not be damaged.

Smooth the construction zone to provide a broad, nearly level area for the fence. The area should be wide enough throughout the length of the fence to provide storage of runoff and sediment behind the fence.

### **Silt Fence Installation**

Fence should be installed generally on the contour with each end turned upslope, in “C” configurations, or “J” hooks, so that runoff can be intercepted as sheet flow. Ends should be flared uphill to provide temporary storage of water. Fence should be placed so that runoff from disturbed areas must pass through the fence. Fence should not be placed across concentrated flow areas such as channels or waterways unless specifically designed as a temporary check dam. When placed near the toe of a slope, the fence should be installed far enough from the slope toe to provide a broad flat area for adequate storage capacity for sediment. An off-set installation with a trench or slice is now the preferred method of installation. Dig a trench or make a slice at least 6” deep along the fence alignment as shown in Figures SB-1 and SB-3 for Types A & B fences.

Drive posts to the depth specified 6 inches downslope of the trench. Space posts a maximum of 10 feet for Type A fencing, or 6 feet for Type B fencing. In areas where water is ponded, the fence posts may be specified at half the spacing.

For Type A fence, fasten support wire fence to upslope side of posts, extending to the ground surface as shown in the Figure SB-1.

Attach continuous length of fabric to upslope side of fence posts and through the trench. Minimize the number of joints. Type A fence joints should be installed according to Figure SB-2. Type B fence should be joined by rolling the ends together using the “roll joint” method illustrated in Figure SB-4 or as detailed in the specifications. Avoid joints at low points in the fence line. When specified, install the overflow/dewatering device and splash pad at the low point in the fence.

Install tie backs as specified on the ends of the silt fence.

Backfill the trench with compacted earth as shown in Figures SB-1 and 3.

Provide good access in areas of heavy sedimentation for clean out and maintenance.

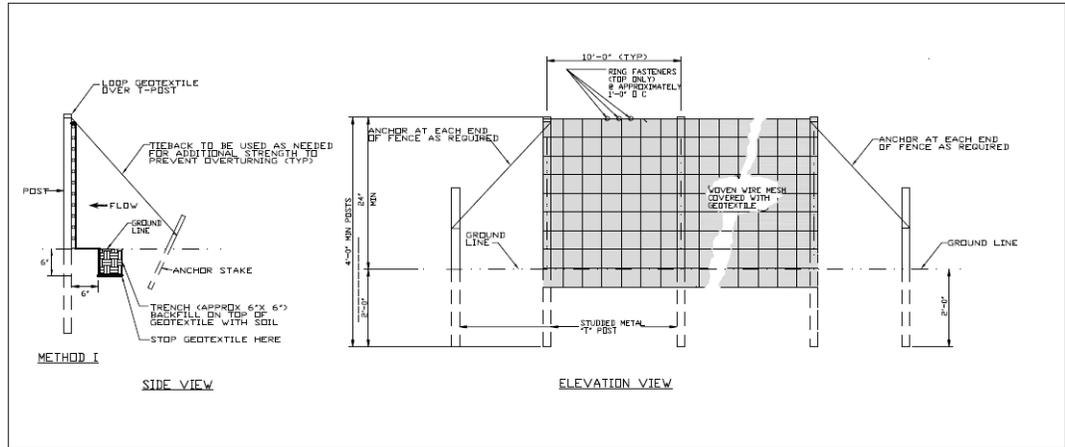


Figure SB-1 Silt Fence - Type A  
(For post material requirements see Tables SB-2 and SB-3 (Volume I of Handbook))

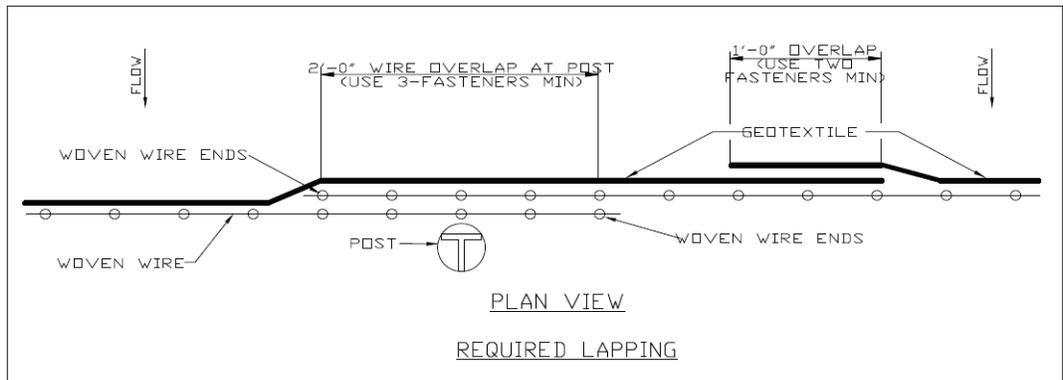


Figure SB-2 Type A Silt Fence Overlap

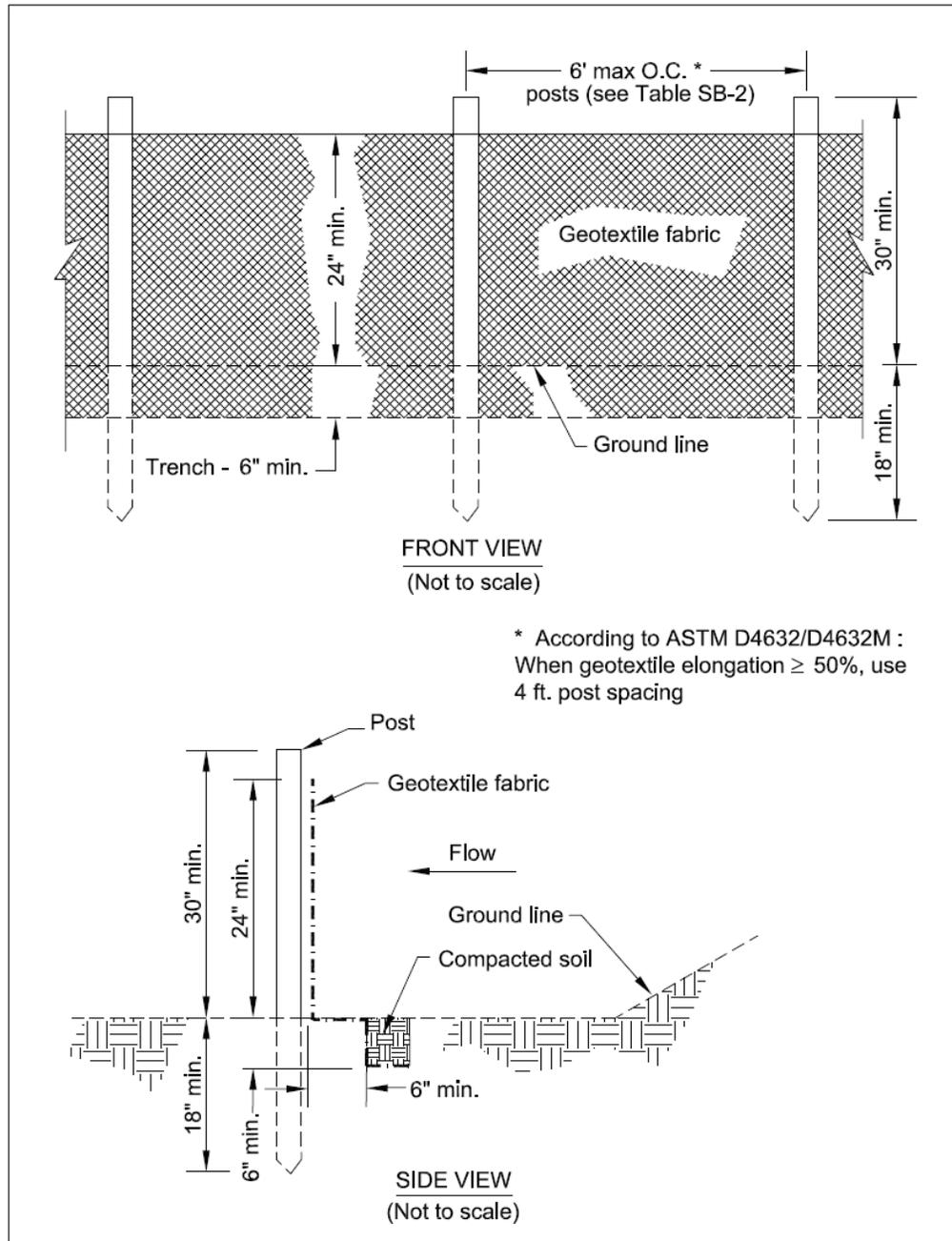


Figure SB-3 Silt Fence - Type B  
 (For post material requirements see Tables SB-2 and SB-3 (Volume I of Handbook))

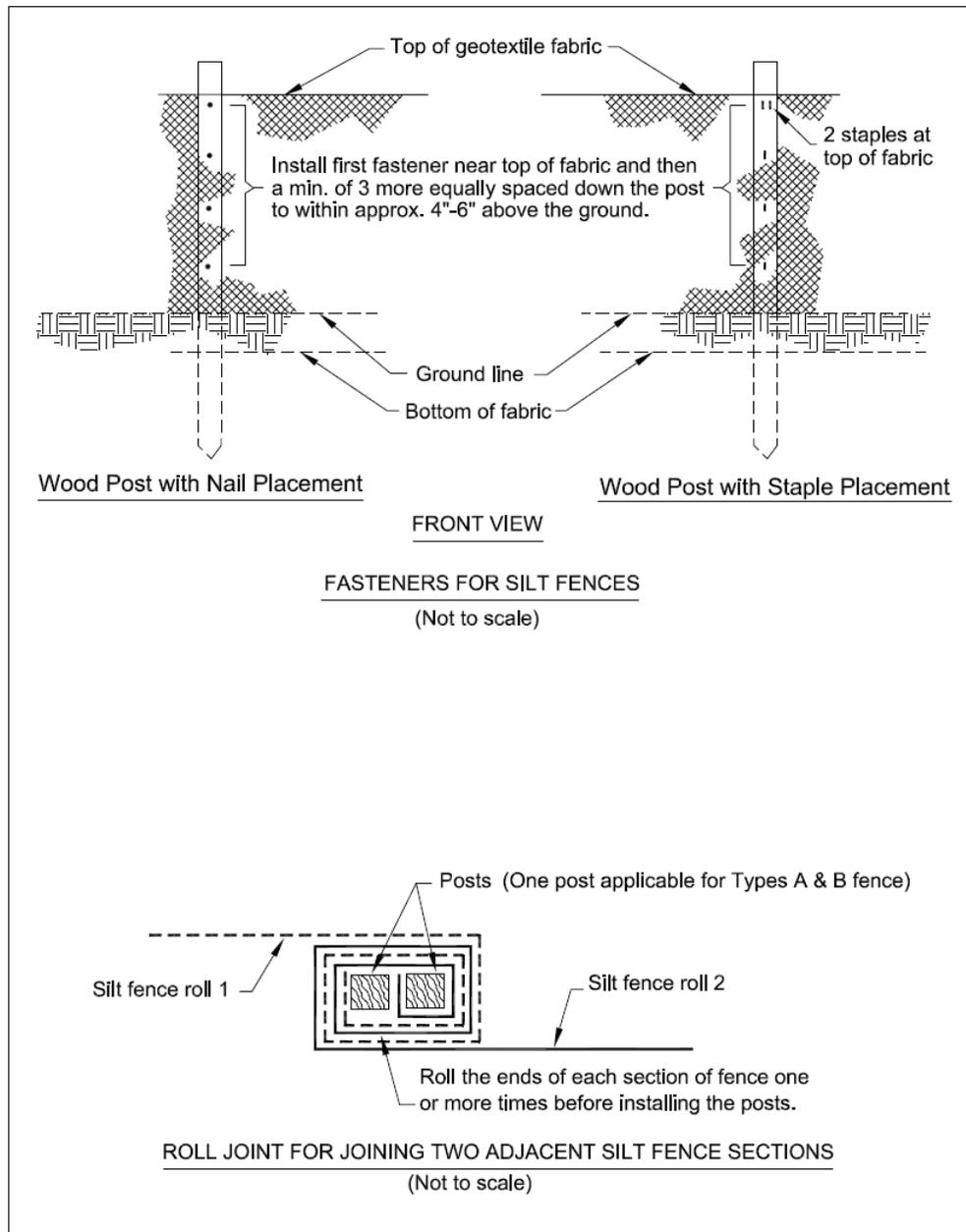


Figure SB-4 Type B Silt Fence Installation Details

### ***Erosion Control***

Stabilize disturbed areas in accordance with vegetation plan. If no vegetation plan exists, consider planting and mulching as a part of barrier installation and select planting information from appropriate planting practice, Permanent Seeding or Temporary Seeding. Select mulching information from the Mulching practice.

### ***Construction Verification***

Check finished grades and dimensions of the sediment fence. Check materials for compliance with specifications.

## **Common Problems**

*Consult with a qualified design professional if any of the following occur:*

- Variations in topography onsite indicate sediment fence will not function as intended or alignment is not on contour or fence crosses concentrated flow areas; changes in plan may be needed.
- Design specifications for filter fabric, support posts, support fence, gravel or riprap cannot be met; substitutions may be required. Unapproved substitutions could lead to failure.
- Drainage area appears to exceed  $\frac{1}{4}$  acre for 100 feet of non-reinforced silt fence and  $\frac{1}{2}$  acre for reinforced fence.
- The runoff exceeds the storage volume of the silt fence.

## **Maintenance**

Inspect silt fences at least once a week and after each significant rain event.

Make required repairs immediately.

Should the fabric of silt fence collapse, tear, decompose or become ineffective, replace it promptly.

Remove sediment deposits when they reach a depth of  $\frac{1}{2}$  the height of the fence as installed to provide adequate storage volume for the next rain and to reduce pressure on the fence.

After the contributing drainage area has been properly stabilized, remove all barrier materials and unstable sediment deposits, bring the area to grade and stabilize it with vegetation.

## Buffer Zone (BZ)



### Practice Description

A buffer zone is a strip of plants adjacent to land-disturbing sites or bordering streams, lakes, and wetlands which provides streambank stability, reduces scour erosion, reduces storm runoff velocities and filters sediment in stormwater. This practice applies on construction sites and other disturbed areas that can support vegetation and can be particularly effective on floodplains, next to wetlands, along stream banks and on steep, unstable slopes.

### Typical Components of the Practice

- Preservation and Protection of Existing Vegetation
- Site Preparation
- Soil Amendments (lime and fertilizer)
- Planting Desired Vegetation
- Mulching
- Maintenance

### Installation (Preservation)

Prior to start of construction, buffer zones should be designed by a qualified design professional. Plans and specifications should be referred to by field personnel throughout the installation process.

Preserve vegetation on designated areas shown in plan. In the absence of a plan, maintain a buffer of existing vegetation with a minimum width for shoreline or stream bank protection of at least 35 feet. Local ordinances may require a wider buffer. Narrower buffer zones may be sufficient on steep slopes that are narrower than 35 feet.

## **Installation (Plantings)**

Prior to start of construction, buffer zones should be designed by a qualified design professional. Plans and specifications should be referred to by field personnel throughout the installation process.

### ***Site Preparation***

Install planned measures such as silt fences and diversions before grading and seedbed preparation. In the absence of a plan and before grading and seedbed preparation, install other necessary measures which may include silt fences and diversions. Clear area of clods, rocks, etc. that would interfere with seedbed preparation; smooth the area before the soil amendments are applied and firm the soil after the soil amendments are applied.

### ***Soil Amendments (lime and fertilizer)***

Apply lime and fertilizer according to the plan or by soil test recommendations. In the absence of a plan or soil test recommendations, apply agricultural limestone at the rate of 2 tons per acre (90 lbs per 1000 ft<sup>2</sup>.) and 10-10-10 fertilizer at the rate of 1000 lbs per acre (25 lbs per 1000 ft<sup>2</sup>.). Apply ground agricultural limestone unless a soil test shows pH of 6.0 or greater. Incorporate amendments to a depth of 4" to 6" with a disk or chisel plow.

### ***Planting Desired Vegetation***

Plant desired vegetation according to the design plan. In the absence of a plan use installation guidelines for Permanent Seeding, Tree Planting on Disturbed Areas, or Shrub, Vine and Groundcover Planting.

### ***Mulching***

Spread mulch according to guidelines in the Mulching practice.

## **Common Problems**

*Consult with qualified design professional if any of the following occur:*

- Soil compaction can prevent adequate plant growth. Compaction should be addressed during site preparation.

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## Installation and Maintenance of Best Management Practices

- Design specifications for plants (variety, seeding/planting dates) and mulch cannot be met; substitutions may be required. Unapproved substitutions could lead to failure.

*Problems that require remedial actions:*

- Erosion, washout and poor plant establishment – repair eroded surface, reseed, reapply mulch and anchor.
- Mulch is lost to wind or stormwater runoff – reapply mulch and anchor.

### **Maintenance**

Replant trees, grass, shrubs or vines where needed to maintain adequate cover for erosion control. Maintain grass plantings with periodic applications of fertilizer and mowing.

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## Diversion (DV)



### Practice Description

A diversion is a watercourse constructed on a designed grade, across a slope, and consisting of an excavated channel, a compacted ridge, or a combination of both.

This practice applies to sites where stormwater runoff can be redirected to permanently protect structures or areas downslope from erosion, sediment, and excessive wetness or localized flooding. Diversions may be used to temporarily divert stormwater runoff to protect disturbed areas and slopes or to retain sediment on-site during construction.

### Typical Components of the Practice

- Site Preparation
- Grading
- Erosion and Sediment Control
- Construction Verification
- Maintenance

### Construction

Prior to start of construction, diversions should be designed by a qualified design professional. Plans and specifications should be referred to by field personnel throughout the construction process. A diversion should be built according to

planned alignment, grade, and cross section. Typically, a diversion is constructed with the following activities.

### **Site Preparation**

Determine exact location of any underground utilities.

Locate and mark the alignment of the diversion as shown on the plans. Minor adjustments to the grade and alignment may be required to meet site conditions. The alignment should maintain a positive grade towards the outlet and end in a stable outlet or an area that can be stabilized.

Clear the construction area of trees, stumps, brush, sod and other unsuitable material which would interfere with compaction of the ridge.

Disk or scarify the area where the ridge is to be installed before placing the fill.

Clean out and refill with compacted earth fill all ditches, swales or gullies to be crossed.

Apply gravel or hard surface protection at vehicle crossings to prevent rutting.

Install stable outlets prior to construction. Adequate vegetation should be established in the outlet channel. If vegetation cannot be established use Lined Swale, Rip-rap Lined Swale, Drop Structure, Sediment Basin or Stormwater Detention Basin .

### **Grading**

Excavate, fill and shape the diversion to planned alignment, grade and cross section. The channel should have a positive grade toward the outlet to avoid ponding. Where possible, blend diversion into the surrounding landscape.

Overfill and compact the ridge, allowing for 10% settlement. Fill should be placed in lifts of no more than 6" to 8" in depth. Compaction may be achieved by driving wheeled equipment along the ridge as lifts are added. The settled ridge top must be at or above design elevation at all points.

All soil removed and not needed for the practice should be spread or disposed of so that it will not interfere with the functioning of the diversion.

### **Erosion and Sediment Control**

Control sediment along grading limits with sediment control measures.

Leave sufficient area adjacent to the diversion to permit clean out and regrading.

Immediately after installation install vegetation treatment or other means to stabilize the diversion in accordance with plans.

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## Installation and Maintenance of Best Management Practices

Install gravel or hard surface protection at vehicle crossings.

Stabilize diversion outlets in accordance with plans.

### **Construction Verification**

Check finished grades and cross section of diversions to eliminate constrictions to flow. Check all ridges for low spots and stability.

### **Common Problems**

*Consult with a qualified design professional if any of the following occur:*

- Variations in topography on site indicate diversion will not function as intended. Changes in plans will be needed.
- Design specifications for seed variety or seeding cannot be met. Substitutions not approved by the design professional could result in erosion and lead to diversion failure.
- Seepage is encountered during construction. It may be necessary to install drains.

### **Maintenance**

Inspect weekly and following each storm event for erosion until the diversion is vegetated.

Remove debris and sediment from the channel, and rebuild the ridge to design elevation where needed.

Check diversion outlet for erosion and repair if area becomes unstable. Maintain vegetation with periodic fertilization and mowing to keep vegetation in a vigorous, healthy condition. Mow for weed and brush control during the first year and as needed to prevent brush and trees seedlings from becoming established after the first year of installation.

When the work area has been stabilized, remove temporary diversions, sediment barriers and traps and repair bare or damaged areas in the vegetation by planting and mulching or sodding.

Stabilize all eroded, rutted or disturbed areas as soon as possible with vegetation or synthetic erosion control measures as specified in the design.

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**APPENDIX C**  
**SEDIMENT BASIN DESIGNS**





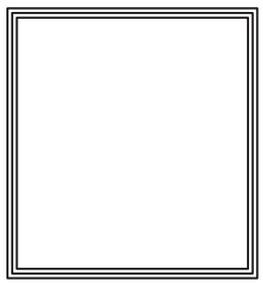
SEDIMENT POND 01  
DRAINAGE BASIN  
AREA: 178,372  
SF (2.1 ACRES)

SEDIMENT POND 02  
DRAINAGE BASIN  
AREA: 128,457  
SF (2.4 ACRES)

SEDIMENT POND 03  
DRAINAGE BASIN  
AREA: 46,256  
SF (1.0 ACRES)

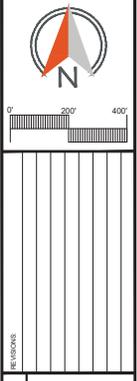
**LEGEND**

●	NAIL AND TWO INCH DIAMETER ALUMINUM DISC SET STAMPED ALLEN P.S. 31626	■	MAILBOX
○	IRON MONUMENT FOUND AND TYPE	□	HANDICAP PARKING
○	1/2 INCH DIAMETER REBAR SET WITH RED CAP STAMPED ALLEN P.S. 105545	⊘	STOP SIGN
○	CALCULATED POINT	⊙	A/C UNIT
(R)	RECORD (BEARING, DISTANCE, ANGLE, OR DESCRIPTION)	■	CLEANOUT
POC	POINT OF COMMENCEMENT	■	GRATE INLET
POB	POINT OF BEGINNING	■	CURB INLET
ROW	RIGHT OF WAY	■	DRAINAGE MANHOLE
—	OVERHEAD ELECTRIC, TELEPHONE, AND OR CABLE (TV)	■	ELECTRICAL TRANSFORMER
—	SANITARY SEWER LINE	■	ELECTRIC METER
—	UNDERGROUND TELEPHONE / FIBER LINE	■	GAS METER
—	UNDERGROUND ELECTRIC	■	GAS VALVE
—	UNDERGROUND WATER LINE	■	WATER VALVE
—	UNDERGROUND GAS LINE	■	IRRIGATION CONTROL VALVE
—	EXISTING WIRE FENCE	■	FINISHED FLOOR ELEVATION
—	EXISTING CHAIN LINK FENCE	■	TELEPHONE MANHOLE
—	EXISTING WOOD / VINYL FENCE	■	TELEPHONE PEDESTAL
—	LINE NOT TO SCALE	■	WATER METER
—	BM (TEMPORARY BENCHMARK)	■	FIRE HYDRANT
—	GLY WIRE		
—	UTILITY POLE		
—	LIGHT POLE		
—	SIGN		
—	SEWER MANHOLE		



SURVEY PROVIDED BY:

**ALLEN LAND SURVEYING, LLC**  
201 COUNTY ROAD 1859 ARAB, AL. 35016  
1-256-640-3516



OVERALL SEDIMENTATION POND PLAN

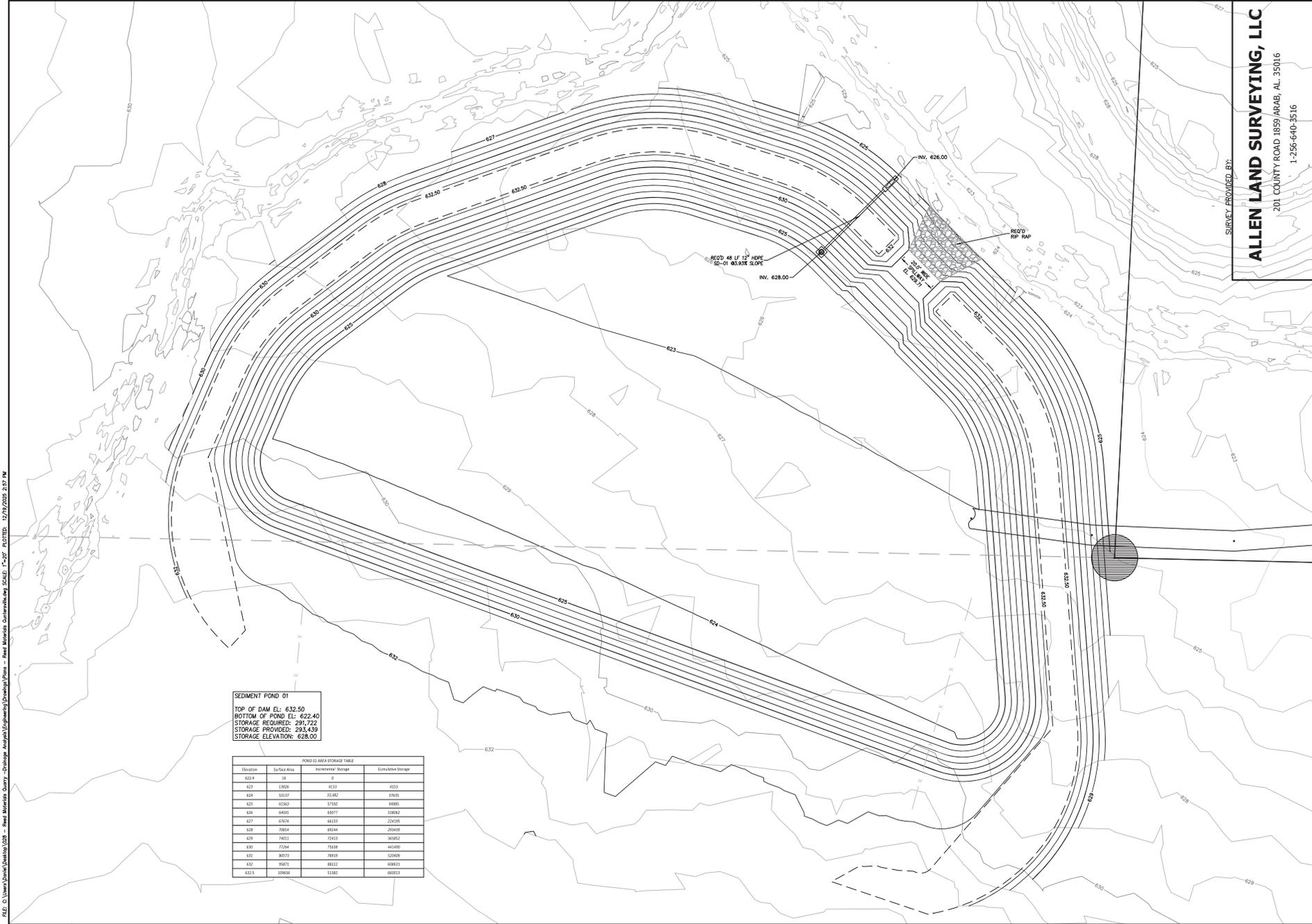
**REED MATERIALS GUNTERSVILLE**  
GUNTERSVILLE, ALABAMA

**21 POINT**  
INCORPORATED

3224 MEMORIAL PARKWAY DR  
HUNTSVILLE, ALABAMA 35882  
PHONE: 256-539-3420  
EMAIL: INFO@21pointinc.com

NOTE: THIS DRAWING IS NOT VALID UNLESS SIGNED AND SEALED

FILE: C:\Users\james\Desktop\1026 - Reed Materials Quarry - Storage Analysis\Drawings\Drawings\Plans - Reed Materials Guntersville\Drawings\Plans - 12/17/2022 2:57 PM



**SEDIMENT POND 01**  
 TOP OF DAM EL: 632.50  
 BOTTOM OF POND EL: 622.40  
 STORAGE REQUIRED: 291,722  
 STORAGE PROVIDED: 293,439  
 STORAGE ELEVATION: 628.00

Elevation	Surface Area	Incremental Storage	Cumulative Storage
622.4	0	0	0
623	13826	4153	4153
624	31217	28342	32495
625	62569	31356	63851
626	64903	32077	95928
627	67574	34333	130261
628	70824	39244	169505
629	74933	42443	211948
630	77524	25838	237786
631	80173	28919	266705
632	58871	8822	275527
632.5	28836	5182	280709

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**ALLEN LAND SURVEYING, LLC**  
 201 COUNTY ROAD 1859/ARAB, AL. 35016  
 1-256-640-3516

REVISIONS  
 1  
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SEDIMENTATION POND 01 PLAN  
**REED MATERIALS GUNTERSVILLE**  
 GUNTERSVILLE, ALABAMA

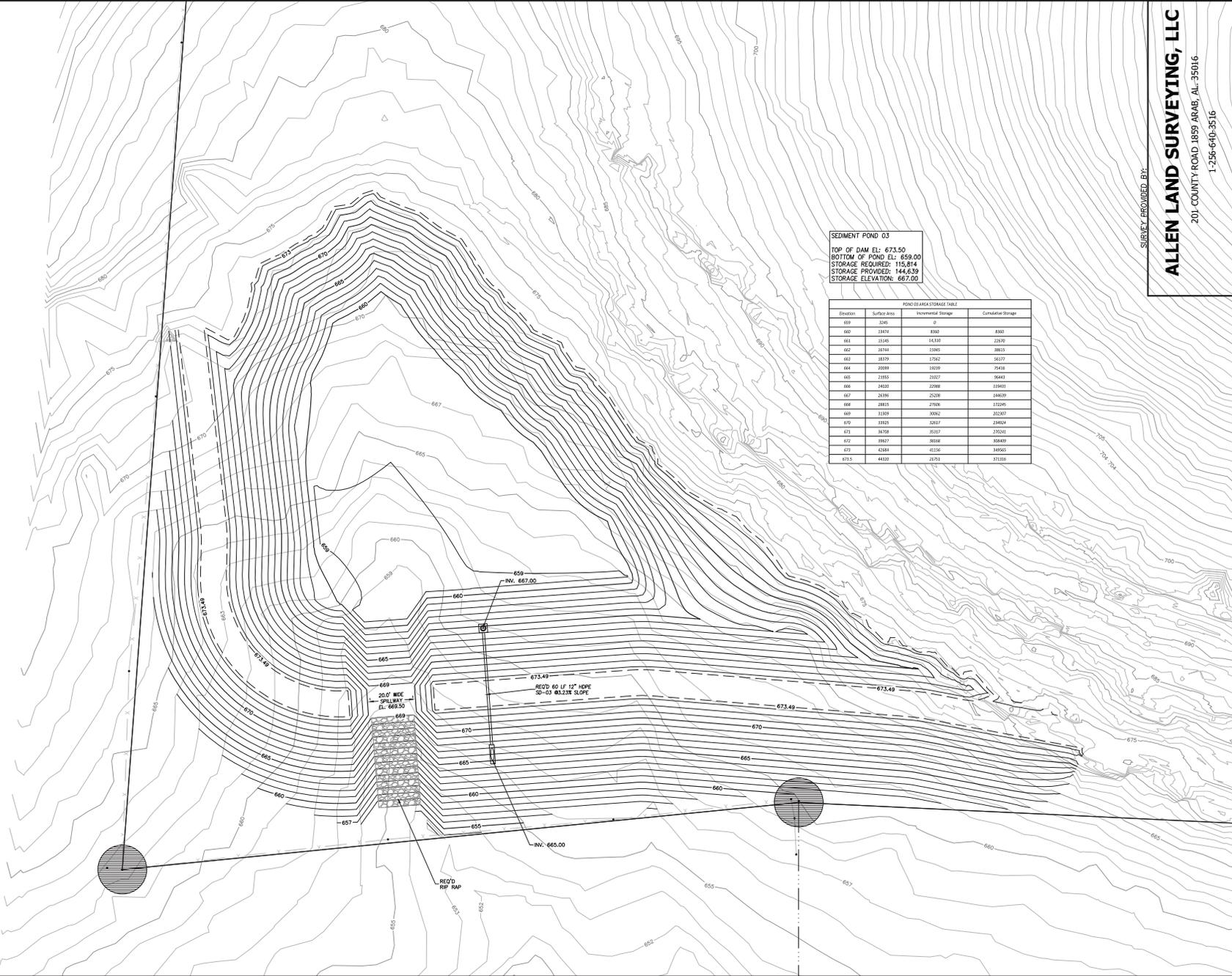


3824 MEMORIAL PARKWAY DR  
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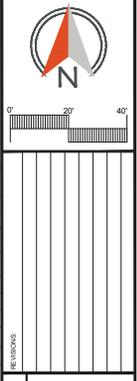
FILE: C:\Users\james\Desktop\028 - Reed Materials Quarry - Damge Arch (Engineering\Drawings)\Plans - Reed Materials - Guntersville - Scale: 1"=20' - PLOTTED: 12/7/2022 2:17 PM



**SEDIMENT POND 03**  
 TOP OF DAM EL: 673.50  
 BOTTOM OF POND EL: 659.00  
 STORAGE REQUIRED: 115,814  
 STORAGE PROVIDED: 144,639  
 STORAGE ELEVATION: 667.00

POND 03 AREA STORAGE TABLE			
Elevation	Surface Area	Incremental Storage	Cumulative Storage
659	3500	0	8300
660	13674	8300	22670
661	15145	14330	37000
662	16700	15945	52945
663	18379	17642	70587
664	20289	19370	89957
665	22553	21227	111184
666	24920	23088	134272
667	27480	25028	159300
668	29315	27006	186306
669	31309	29022	215328
670	33525	31077	246405
671	36000	33167	279572
672	38677	35306	314878
673	42584	41106	356000
673.5	44330	21794	377794

SURVEY PROVIDED BY:  
**ALLEN LAND SURVEYING, LLC**  
 201 COUNTY ROAD 1859 ARAAB, AL 35016  
 1-256-610-3516

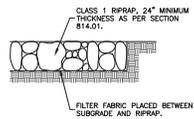


REED MATERIALS GUNTERSVILLE  
 GUNTERSVILLE, ALABAMA

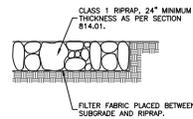
**THE 21 POINT**  
 INCORPORATED

8224 MEMORIAL PARKWAY DR  
 HUNTSVILLE, ALABAMA 35892  
 PHONE: 256-533-8400  
 EMAIL: INFO@21pointinc.com

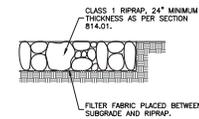
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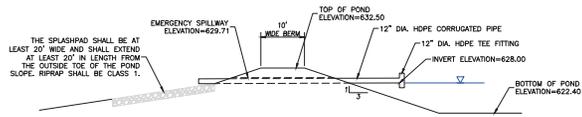
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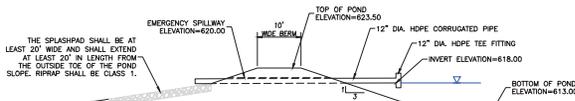
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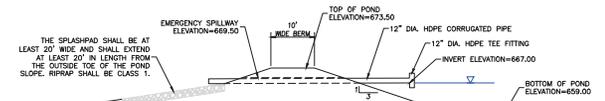
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**SPILLWAY CROSS SECTION THROUGH BERM**



**SPILLWAY CROSS SECTION THROUGH BERM**



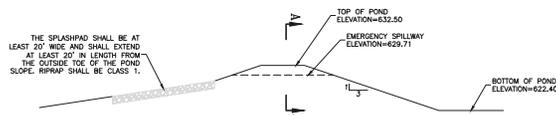
**SPILLWAY CROSS SECTION THROUGH BERM**

- NOTES:
1. FILTER FABRIC SHALL BE PLACED BETWEEN SUBGRADE AND RIPRAP.
  2. AREA FOR POND SHALL BE CLEARED AND GRUBBED PRIOR TO EXCAVATING POND, AND ANY ORGANIC OR OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED FROM THE FOOTPRINT OF THE POND.
  3. ALL SUITABLE MATERIAL EXCAVATED FROM THE POND MAY BE USED TO CONSTRUCT THE PERIMETER AND ANY BERM SLOPE COMBINATION TO DELIVER STORM WATER TO THE POND AS NECESSARY.
  4. IF EMBANKMENT FILL IS REQUIRED TO CONSTRUCT POND, FILL SHALL CONSIST OF COHESIVE SOIL, PLACED IN 6 INCH LOOSE LIFTS, AND COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR (ASTM 998). FILL MATERIAL SHALL BE FREE OF ORGANIC MATERIALS INCLUDING ROOTS AND TREE DEBRIS, AND STONES GREATER THAN 6 INCHES IN DIAMETER.
  5. ANTI-SLEEP COLLARS SHALL BE PLACED AT ALL JOINTS IN SPILL PIPE AND SHALL EXTEND 2 FOOT RADIALY FROM THE JOINT. ALL CONNECTIONS SHALL BE WATER TIGHT.

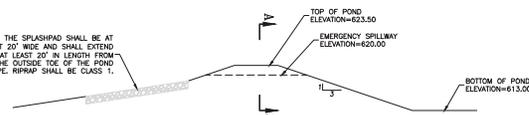
**SPILLPIPE DETAIL**  
NOT TO SCALE

**SPILLPIPE DETAIL**  
NOT TO SCALE

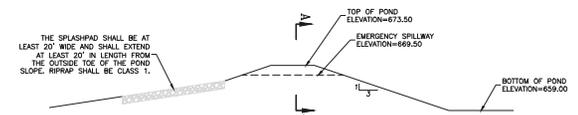
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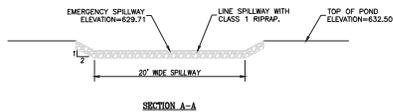
**SPILLWAY CROSS SECTION THROUGH BERM**



**SPILLWAY CROSS SECTION THROUGH BERM**

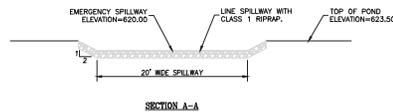


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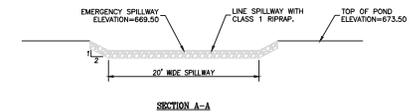
**EMERGENCY SPILLWAY DETAIL**  
NOT TO SCALE

**POND 01**



**EMERGENCY SPILLWAY DETAIL**  
NOT TO SCALE

**POND 02**



**EMERGENCY SPILLWAY DETAIL**  
NOT TO SCALE

**POND 03**

POND STRUCTURE DETAILS

**REED MATERIALS GUNTERSVILLE**  
GUNTERSVILLE, ALABAMA



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**END OF DOCUMENT**

