Edward F. Poolos
Director

Jeffery W. Kitchens
Deputy Director

Kay Ivey
Governor

Alabama Department of Environmental Management
adem.alabama.gov
1400 Coliseum Blvd. 36110-2400 ▪ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ▪ FAX (334) 271-7950

April 30, 2026

Mr. David McKeown
Director, Environmental Compliance
General Shale Brick, Inc.
5100 Brickyard Rd
Columbia, SC 29203

RE: Draft Permit
Pittsview Mine
NPDES Permit Number AL0084534
Russell County (113)

Dear Mr. McKeown:

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 Skylar Wilson at (334) 274-4231 or eva.wilson@adem.alabama.gov.

Sincerely,

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

WDM/esw File: DPER/63096

cc: Skylar Wilson, 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
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
(256) 353-1713
(256) 340-9359 (FAX)

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

ADEM
Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: General Shale Brick, Inc. dba Columbus Brick
5100 Brickyard Road
Columbia, SC 29203

FACILITY LOCATION: Pittsview Mine
431 Highway West
Pittsview, AL 26871
Russell County
T14N, R28E, S1
T14N, R29E, S6

PERMIT NUMBER: AL0084534

DSN & RECEIVING STREAM:
001 - 1 Unnamed Tributary to Watermelon Creek
002 - 1 Unnamed Tributary to Weolustee Creek

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

Alabama Department of Environmental Management
Water Division Chief

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

Shale and/or Common Clay Mining, Mineral Loading, Mineral Storage, Mineral Transportation, and Associated Areas

TABLE OF CONTENTS

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[1]
pH 00400	6.0 s.u.	-------	9.0 s.u.	Grab	2/Month
Solids, Total Suspended 00530	-------	-------	35.0 mg/L	Grab	2/Month
Aluminum, Total (as Al) 01105	-------	Report mg/L	Report mg/L	Grab	2/Month
Flow, In Conduit or Thru Treatment Plant[2] 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

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

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[1] See Part I.C.2. for further measurement frequency requirements.

[2] Flow must be determined at the time of sample collection by direct measurement, calculation, or other method acceptable to the Department.

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 28th day of the month following the quarterly reporting period (i.e., on the 28th 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 1 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.1.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 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 I 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. NH3-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 ACTIVIES 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

ANTIDEGRADATION RATIONALE

Company Name: General Shale Brick, Inc. dba Columbus Brick

Facility Name: Pittsview Mine

County: Russell

Permit Number: AL0084534

Prepared by: Skylar Wilson

Date: April 30, 2026

Receiving Waters: Unnamed Tributary to Watermelon Creek, Unnamed Tributary to Weolustee Creek

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

Discharge Description: This proposed permit covers a shale and/or common clay facility, mineral loading, mineral storage, mineral transportation, 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. General Shale Brick, Inc. will be avoiding a reduction in employment of 40 employees through operation of the proposed facility.
2. General Shale Brick, Inc. will pay $566 in property tax to Russell County through operation of the proposed facility.
3. New manufacturing jobs and brick building materials will be provided for the local area by General Shale Brick, Inc.

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: April 30, 2026

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION

NPDES INDIVIDUAL PERMIT RATIONALE

Company Name:	General Shale Brick, Inc. dba Columbus Brick
Facility Name:	Pittsview Mine
County:	Russell
Permit Number:	AL0084534
Prepared by:	Skylar Wilson
Date:	April 30, 2026
Receiving Waters:	Unnamed Tributary to Watermelon Creek, Unnamed Tributary to Weolustee Creek
Permit Coverage:	Shale and/or Common Clay Mining, Mineral Loading, Mineral Storage, Mineral Transportation, and Associated Areas
SIC Code:	1459

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

This proposed permit covers shale and/or common clay mining, mineral loading, mineral storage, mineral transportation, and associated areas which discharge to surface waters of the state.

The proposed permit authorizes treated discharges into an unnamed tributary to Watermelon Creek and an unnamed tributary to Weolustee Creek 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 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.

40 CFR 436 Subpart AD is reserved for shale and common clay mineral mining and processing, however Technology Based Effluent Limits (TBELs) for shale/common clay mining have not yet been promulgated. Discharges from a facility of this type, however, are expected to be similar to discharges from facilities mining and processing sand and gravel for use in construction. Therefore, the permit was prepared considering the TBELs in 40 CFR 436 Subpart C.

Monitoring requirements have been established for all Outfalls for Aluminum to determine if it may potentially be present in levels of concern due to the use of coagulants for waste treatment. Monitoring results will be used to develop limitations in the future if needed to protect water quality.

The instream WQS for pH, for streams classified as Fish and Wildlife, are 6.0 - 8.5 s.u per ADEM Admin Code r. 335-6-10-.09; however, because discharges from Outfalls 001-1 and 002-1 are expected only in response to rain events, it is the opinion of the Department that discharges with an allowable pH daily maximum of 9.0 will not adversely affect the instream pH based on the low discharge/stream flow ratio. The discharge limitations for pH of 6.0 – 9.0 s.u. for Outfalls 001-1 and 002-1 are identical to the existing point source TBELs found in 40 CFR 436 Subpart C.

The TBELs for 40 CFR 436 Subpart C 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, the permit was prepared considering the daily maximum effluent limitation for TSS proposed by the EPA for shale and common clay 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. Part II.C.3 requires 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 Permit shall be reopened, if required to address any new information resulting from the submittal of the new effluent date.

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.

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.

NPDES Individual Application - Mining (Form 315)

version 3.4

(Submission #: HQH-KF52-HSE7E, version 2)

Details

Submission ID HQH-KF52-HSE7E

Form Input

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
General Shale Brick, Inc. dba Columbus Brick

Mailing Address

5100 Brickyard Road

Columbia, SC 29203

Responsible Official

Prefix
Mr.

First Name	Last Name
David	McKeown

Title
Director, Environmental Compliance

Organization Name
General Shale Brick, Inc.

Phone Type	Number	Extension
Business	803-691-3121	

Email
DAVID.MCKEOWN@GENERALSHALE.COM

Mailing Address

5100 BRICKYARD RD

COLUMBIA, SC 29203-3116

Facility/Operations Information

Facility/Operations Name
Pittsview Mine

Permittee Organization Type
Corporation

Parent Corporation and Subsidiary Corporations of Applicant, if any:
General Shale Brick, Inc.

Landowner(s) Name, Address and Phone Number:
General Shale Brick, Inc.
3015 Bristol Highway
Johnson City, TN 37601
(423)282-4661

Sub-contractor(s)/Operator(s), if known:
NONE PROVIDED

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

431 HWY W OF

Pittsview, AL 26871

Facility/Operations County (Front Gate)
Russell

Do the operations span multiple counties?
No

Detailed Directions to the Facility/Operations
Located along the western side of US 431 approximately 21 miles south of Phenix City, AL.
5 miles south of Seale, AL and 3 miles north of Pittview, AL.

Please refer to the link below for Lat/Long map instruction help:
Map Instruction Help

Facility/Operations Front Gate Latitude and Longitude
32.23252673956839,-85.17115630108992

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)
SECTION 1, TOWNSHIP 14 NORTH, RANGE 28 EAST; SECTION 6, TOWNSHIP 14 NORTH, RANGE 29 EAST

SIC Code(s) [Please select your primary SIC code first]:
1459-Clay Ceramic and Refractory Minerals

NAICS Code(s) [Please select your primary NAICS code first]:
212323-Kaolin, Clay, And Ceramic And Refractory Minerals Mining

Facility/Operations Contact

Prefix
Mr.

First Name	Last Name
Brian	Taylor

Title
Production Manager

Organization Name
Columbus Brick

Phone Type	Number	Extension
Business	334-480-2448	

Email
brian.taylor@columbusbrick.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
Charles Smith	President/CEO	3015 Bristol Highway, Johnson City, TN 37601
Kevin Ham	Vice President	3015 Bristol Highway, Johnson City, TN 37601
Andy Hall	Chief Operating Officer	3015 Bristol Highway, Johnson City, TN 37601

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
General Shale Brick, Inc.	Charles Smith	President/CEO
General Shale Brick, Inc.	Kevin Ham	Vice President
General Shale Brick, Inc.	Andy Hall	Chief Operating Officer

Additional Contacts (1 of 3)

ADDITIONAL CONTACTS: Engineer

Contact Type
Engineer

Contact

First Name	Last Name
Stephan	Wyse

Title
Environmental Engineer

Organization Name
General Shale Brick, Inc.

Phone Type	Number	Extension
Business	423-282-4661	

Email
steve.wyse@generalshale.com

Address
PO Box 3547
Johnson City, TN 37601

Additional Contacts (2 of 3)

ADDITIONAL CONTACTS: Environmental Contact

Contact Type
Environmental Contact

Contact

First Name	Last Name
Joseph	Williams

Title
Environmental Engineer

Organization Name
General Shale Brick, Inc.

Phone Type	Number	Extension
Business	8033942128	

Email
joseph.williams@generalshale.com

Address
5100 Brickyard Road
Columbia, SC 29203

Additional Contacts (3 of 3)

ADDITIONAL CONTACTS: Plant Manager

Contact Type
Plant Manager

Contact

First Name Mickey **Last Name** Salter

Title
Plant Manager

Organization Name
General Shale Brick, Inc.

Phone Type	Number	Extension
Business	3344802449	

Email
mickey.salter@columbusbrick.com

Address

1501 Brickyard Road

Phenix City, AL 36869

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
10/03/2023	Warning Letter	ALG230008 - Compliance Evaluation Inspection Letter	10/26/2023

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:
ADOL Permit Pending

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:
Air Quality:
General Shale Brick, Inc. (Plant 65A) - Facility No. 211-0020
General Shale Brick, Inc. (Plant 65B) - Facility No. 211-0019

NDPES:
AL0079324 - Phillips Pit
AL0061361 - Bankston Pit
AL0080012 - Lumpkin Mill Mine
AL0058599 - Hearn Mine
AL0058629 - Uchee Mine
ALG230008 - General Shale Brick, Inc. (Plant 65A) dba Columbus Brick
ALG230007 - General Shale Brick, Inc. (Plant 65B) dba Columbus Brick
AL0084469 - Rainer/Beasley Pit
AL0084476 - Dunning-Flemming Pit

ADOL:
13-General Shale-1 : Lumpkin Mill Mine (Rome, GA plant)
32-Columbus Brick-1: Bankston Pit
54-Columbus Brick-2: Phillips Pit
43-GSBI-2: Hearn Mine
57-GSBI-1: Uchee North Mine
57-GSBI-2: Uchee South Mine

Anti-Degradation Evaluation

CORRECTION REQUEST *(CORRECTED)*
Anti-Degradation Rationale Needed

Weolustee Creek and Watermelon Creek are not on the 303d or TMDL list, so an anti-degradation rationale is needed for new discharges to these creeks.
Created on 4/28/2026 8:18 AM by **Skylar Wilson**

1 COMMENT
Joseph Williams (joseph.williams@generalshale.com) (4/29/2026 7:45 AM)
Section Complete w/ forms 311 and 313 uploaded.

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?
Not Applicable

How much will the discharger be increasing employment (at its existing facility or as the result of locating a new facility)?
0

How much reduction in employment will the discharger be avoiding?
40 employees

How much additional state or local taxes will the discharger be paying?
$566 in property tax to Russell County

What public service to the community will the discharger be providing?
Manufacturing jobs and providing brick building materials for the local area.

What economic or social benefit will the discharger be providing to the community?
Manufacturing jobs and locally sourced building materials.

Attach Form 311 (Alternative Analysis)
2026.04.05 Form311.pdf - 04/29/2026 07:44 AM
Comment
NONE PROVIDED

Please attach Form 312 (Public Sector Projects) or Form 313 (Private Sector Projects).
2026.04.05 Form313.pdf - 04/29/2026 07:40 AM
Comment
NONE PROVIDED

Activity Description & Information

Narrative description of activity(s):
Clearing and grubbing of vegetation.
Excavation and placement of overburden.
Mining of clay down to a depth of approximately 20'.
Backfill and grading of mined areas.
Revegetation and reclamation of mined areas.

Total Facility/Operations Area (acres)
279.30

Total Disturbed Area (acres)
114.74

Anticipated Commencement Date
03/01/2026

Anticipated Completion Date
03/01/2056

Please identify which of the following apply to this operation:

Activity/Condition	Appy?
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?	Yes
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 mile of any PWS well?	No
Incised pit	Yes

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)	%
Shale and/or Common Clay	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.)	Yes
Construction related temporary borrow pits/areas	No
Creek/stream crossings	No
Dredging	No
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)	No
Mineral loading	Yes
Mineral storing	Yes
Mineral transportation	Yes
Mineral wet preparation	No
Onsite construction debris or equipment storage/disposal	No
Onsite mining debris or equipment storage/disposal	No
Other beneficiation & manufacturing operations	No
Pre-construction ponded water removal	No
Pre-mining logging or land clearing	Yes
Preparation plant waste recovery	No
Quarrying	No
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 PROVIDED

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

Please specify the chemical(s) used in process or wastewater treatment (coagulant, biocide, etc.):
Polyacrylamide, Alum

Attach MSDS
MSDS - Alum .pdf - 01/05/2026 09:44 AM
MSDS - PAM 712 SiltStop.pdf - 01/05/2026 09:44 AM
Comment
NONE PROVIDED

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
1,000.0	Diesel Fuel
55.0	Oil

SPCC Plan
2025.12.23 Pittsview SPCC Plan.pdf - 12/23/2025 08:37 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
PAP FIGURE 1.pdf - 12/18/2025 09:58 AM
PAP FIGURE 2.pdf - 12/18/2025 09:58 AM
Comment
Maps also included in the PAP plan.

Detailed Facility Map Submittal

Detailed Facility Map

PAP FIGURE 3.pdf - 12/18/2025 10:00 AM
PAP FIGURE 4.pdf - 12/18/2025 10:00 AM

Comment
Maps also included in the PAP plan

Outfalls (1 of 2)

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
Watermelon Creek

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

Location of Outfall
32.23467512303777,-85.17226620498558

303(d) Segment?
No

TMDL Segment?
No

Outfalls (2 of 2)

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
Weolustee Creek

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

Location of Outfall
32.23315736294642,-85.18233511278353

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.xlsx - 12/11/2025 10:27 AM
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.xlsx - 12/08/2025 08:19 AM
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.xlsx - 12/11/2025 10:27 AM
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):
001P

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'	N/A
Side slopes of dam no steeper than 3:1	N/A
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	N/A
Embankment free of roots, tree debris, stones >6" diameter, etc.	N/A
Embankment constructed in lifts no greater than 12"	N/A
Spillpipe sized to carry peak flow from a one year storm event	Yes
Spillpipe will not chemically react with effluent	Yes
Subsurface withdrawal	No
Anti-seep collars extend radially at least 2' from each joint in spillpipe	N/A
Splashpad at the end of the spillpipe	N/A
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	Yes
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	N/A
Minimum of 1.5' of freeboard between max. design flow of emergency spillway and top of dam	N/A
All emergency overflows are sized to handle entire drainage area for ponds in series	N/A
Dam stabilized with permanent vegetation	N/A
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):
Sediment basins are incised in natural ground, therefore no dams or cutoff trenches will be constructed.

No stream crossings needed per current mine plan.

No ponds in series included in the current mine plan. Spillways are designed to handle the entire drainage area reporting to each pond.

Open channel spillways designed for 100-year storms are the overflow device for both sediment basins 001 and 002. No pipes will be installed.

Pollution Abatement & Prevention (PAP) Plan Review Checklist

General Information:	Please select one:
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	N/A

Identify and provide detailed explanation for any "N" or "N/A" response(s):
Water Supply and Disposition is not applicable. Site does not withdraw or purchase water for industrial or sanitary usage. If dust suppression is needed, water will be withdrawn from one of the sediment basins.

Maps:	Please select one:
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

Detailed Design Diagrams:	Please select one:
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

Narrative of Operations:	Please select one:
Raw Materials Defined	Yes
Processes Defined	Yes
Products Defined	Yes

Schematic Diagram:	Please select one:
Points of Waste Origin	Yes
Collection System	Yes
Disposal System	N/A

Identify and provide detailed explanation for any "N" or "N/A" response(s):
No disposal system needed. Any sediment cleaned from sediment basins will be used as topsoil during reclamation.

Post Treatment Quantity and Quality of Effluent:	Please select one:
Flow	Yes
Suspended Solids	Yes
Iron Concentration	Yes
pH	Yes

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

Description of Waste Treatment Facility:	Please select one:

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):
No alternative designs proposed.

No chemical treatment is anticipated.

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)
2025.12.17 Pittsview PAP Final.pdf - 12/26/2025 08:14 AM
Comment
NONE PROVIDED

Professional Engineer (PE)

Registration License Number
PE37706

Professional Engineer

Prefix
Mr.

First Name **Last Name**
Stephan Wyse

Title
Environmental Engineer

Organization Name
General Shale Brick, Inc.

Phone Type **Number** **Extension**
Business 4239524281

Email
steve.wyse@generalshale.com

Address
PO Box 3547
Johnson City, TN 37602

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
PAP FIGURE 5.pdf - 12/18/2025 10:09 AM
PAP FIGURE 6.pdf - 12/18/2025 10:09 AM
Comment
Sediment Basin Details
Flow Diagram

Application Preparer

Application Preparer

Prefix
Mr.

First Name	Last Name
Joseph	Williams

Title
Environmental Engineer

Organization Name
General Shale Brick, Inc.

Phone Type	Number	Extension
Business	8033942128	

Email
joseph.williams@generalshale.com

Address
5100 Brickyard Road
Columbia, SC 29203

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.

Mineral/Resource Extraction Mining, Storage Transloading, Dry Processing:
5820

Greenfield Site Fee:
1610

Fee

Fee
7430

Revisions

Revision	Revision Date	Revision By
Revision 1	12/4/2025 3:08 PM	Joseph Williams
Revision 2	4/28/2026 8:44 AM	Joseph Williams

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 Steve Wyse on 04/29/2026 at 8:43 AM

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 David McKeown on 04/29/2026 at 2:32 PM

Attachment 1 to Supplementary Form
ADEM Form 311

Alternatives Analysis

Applicant/Project: Columbus Brick/Pittsview Mine

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 Exhibit A
2 Pretreatment/Discharge to POTW		X	See Exhibit A
3 Relocation of Discharge		X	See Exhibit A
4 Reuse/Recycle		X	See Exhibit A
5 Process/Treatment Alternatives		X	See Exhibit A
6 On-site/Sub-surface Disposal		X	See Exhibit A
(other project-specific alternatives considered by the applicant; attach additional sheets if necessary)			
7			
8			
9			

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.

Signature: _____ *(Professional Engineer)*

Date: 04/28/2026

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

EXHIBIT A

Discharge Alternatives Evaluation Narrative

This Discharge Alternatives Evaluation Narrative is submitted as Exhibit A in support of ADEM Form 311 – Antidegradation Alternatives Analysis for the Pittsview Mine.

An evaluation of discharge alternatives has been conducted in accordance with the requirements of ADEM Administrative Code Rule 335-6-3-.04 and the State of Alabama's antidegradation policy. The proposed activity consists of two (2) precipitation-dependent, stormwater-only NPDES discharges associated with the Pittsview Mine, a 280-acre non-metallic clay mining operation located in Russell County, Alabama. Stormwater runoff from the site discharges through Outfall 001, which drains an approximately 29-acre watershed and discharges to Watermelon Creek, and through Outfall 002, which drains an approximately 85.8-acre watershed and discharges to Weolustee Creek. Both receiving waters are Tier 2 waters not listed on the State's §303(d) impaired waters list and are not subject to approved Total Maximum Daily Loads (TMDLs).

The purpose of this evaluation is to assess the technical feasibility and economic reasonableness of the discharge alternatives identified on ADEM Form 311 and to determine whether any alternative constitutes a viable option under ADEM antidegradation requirements. Alternatives with total annualized project costs that are less than or equal to 110 percent of the total annualized cost of the proposed discharge are considered viable.

The proposed discharge for the Pittsview Mine consists of managed stormwater runoff conveyed through properly designed, constructed, and maintained best management practices (BMPs) and authorized under an individual NPDES permit. As documented on ADEM Form 313, the total annualized cost of the proposed discharge is approximately $12,000 per year, consisting of approximately $3,000 per year for Outfall 001 and $9,000 per year for Outfall 002.

Alternative 1 – Land Application

Land application of stormwater runoff was evaluated as an alternative to surface water discharge for the Pittsview Mine. Due to the precipitation-dependent nature of stormwater runoff from the site and the size of the contributing drainage areas, implementation would require extensive stormwater capture, storage, pumping, and land

application infrastructure designed to accommodate peak rainfall events. Native soils at the site are predominantly clay, limiting infiltration potential. Based on planning-level estimates, the total annualized cost of this alternative would be on the order of $60,000 to $120,000 per year, which significantly exceeds the cost of the proposed discharge. Accordingly, land application is not considered technically feasible or economically reasonable and is determined to be non-viable.

Alternative 2 – Pretreatment and Discharge to a Publicly Owned Treatment Works (POTW)

Pretreatment and discharge of stormwater runoff to a POTW was evaluated. The Pittsview Mine is located in unincorporated Russell County and is not served by public sanitary sewer infrastructure, and stormwater flows associated with mining operations are incompatible with POTW collection and treatment systems. Even assuming hypothetical service availability, planning-level cost estimates associated with sewer extension, lift stations, connection fees, and ongoing operation would exceed $100,000 per year and could reasonably exceed $250,000 per year. This alternative is not technically feasible and is determined to be non-viable.

Alternative 3 – Relocation of the Discharge

Relocation of the stormwater discharge was evaluated. Discharge locations are dictated by site topography and watershed boundaries. Relocation would require significant regrading or construction of new conveyance or pumping systems and would not eliminate stormwater discharges. Planning-level annualized costs for this alternative are estimated to range from approximately $40,000 to $80,000 per year, which exceeds 110 percent of the approximately $12,000 annualized cost of the proposed discharge. Therefore, this alternative is non-viable.

Alternative 4 – Reuse and Recycling

Reuse and recycling of stormwater runoff, such as for dust suppression, was evaluated. While limited reuse may be implemented as a supplemental BMP, full reuse would require substantial storage infrastructure and would still necessitate overflow discharges during storm events. Planning-level cost estimates for this alternative range from approximately $25,000 to $45,000 per year and would not eliminate the need for an NPDES-permitted discharge. Accordingly, this alternative exceeds the cost of the proposed discharge and is not viable as a stand-alone option.

Alternative 5 – Process or Treatment Alternatives

Additional treatment of stormwater runoff beyond conventional sediment and erosion controls was evaluated. The discharge consists solely of stormwater and existing BMPs

are sufficient to meet permit limits for non-impaired receiving waters. Advanced treatment systems would impose significant capital and operating costs without commensurate environmental benefit. Planning-level annualized costs are estimated to range from approximately $50,000 to $100,000 per year, substantially exceeding the cost of the proposed discharge. This alternative is therefore non-viable.

Alternative 6 – On-Site or Subsurface Disposal

On-site or subsurface disposal alternatives were evaluated. Clay-dominated soils limit infiltration potential, and stormwater volumes associated with the 29-acre and 85.8-acre drainage areas exceed typical system capacities. Subsurface disposal would require hydrogeologic investigation, permitting, and long-term monitoring. Planning-level cost estimates range from approximately $35,000 to $70,000 per year, which exceeds the annualized cost of the proposed discharge. Accordingly, this alternative is not technically feasible or economically reasonable.

Overall Conclusion and Cost Justification

Based on this evaluation, none of the alternatives identified in Items 1 through 6 of ADEM Form 311 are both technically feasible and economically reasonable for the Pittsview Mine when compared to the proposed stormwater discharge. As documented on ADEM Form 313, the proposed discharge has a total annualized cost of approximately $12,000 per year. All alternatives evaluated have total annualized costs well in excess of 110 percent of this amount and/or are not technically feasible given the nature of the stormwater discharges and site conditions. Accordingly, none of the alternatives constitute viable alternatives under ADEM’s antidegradation policy, and the proposed discharge represents the least environmentally damaging practicable alternative.

Calculation of Total Annualized Project Costs for Private-Sector Projects

Capital Costs to be Financed (Supplied by applicant)	$ 0 (1)
Interest rate for Financing (Expressed as a decimal)	N/A (i)
Time Period of Financing (Assume 10 years*)	10 years (n)
Annualization Factor $= \frac{i}{(1+i)^{10} - 1} + i$	N/A (2)
Annualized Capital Cost [Calculate: (1) x (2)]	$ 0 (3)
Annual Cost of Operation and Maintenance (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement)**	$ 12,000 (4)
Total Annual Cost of Pollution Control Project [(3) + (4)]	$ 12,000 (5)

* 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).

Annual NPDES Compliance Cost Summary – Outfall 001

Facility: Columbus Brick – Pittsview Mine

Location: Russell County, Alabama

Discharge: Outfall 001 – Watermelon Creek (29-acre drainage area)

Discharge Type: Precipitation-dependent stormwater only

Cost Category	Annual Cost (USD)	Notes
ADEM permit fees (annualized)	$300 – $800	Averaged over permit term
Laboratory analysis	$1,450 – $2,400	12 samples per year
Sampling labor (internal)	$300 – $500	Onsite foreman
Inspections & BMP documentation	$750 – $1,500	Routine and post-rain inspections
DMR reporting & administration	$250 – $500	Electronic submittals via AEPACS
Routine BMP maintenance	$1,000 – $2,500	Sediment removal and erosion repair
Total Annualized Cost (Form 313)	$3,000	Authoritative annualized project cost

Annual NPDES Compliance Cost Summary – Outfall 002

Facility: Columbus Brick – Pittsview Mine

Location: Russell County, Alabama

Discharge: Outfall 002 – Weolustee Creek (85.8-acre drainage area)

Discharge Type: Precipitation-dependent stormwater only

Cost Category	Annual Cost (USD)	Notes
ADEM permit fees (annualized)	$300 – $800	Averaged over permit term
Laboratory analysis	$1,450 – $2,400	12 samples per year
Sampling labor (internal)	$300 – $500	Onsite foreman
Inspections & BMP documentation	$750 – $1,500	Routine and post-rain inspections
DMR reporting & administration	$250 – $500	Electronic submittals via AEPACS
Routine BMP maintenance	$1,000 – $2,500	Sediment removal and erosion repair
Total Annualized Cost (Form 313)	$9,000	Authoritative annualized project cost

Total Annual NPDES Compliance Cost – Combined Outfalls

Facility: Columbus Brick – Pittsview Mine

Location: Russell County, Alabama

Discharges: Outfall 001 (Watermelon Creek) and Outfall 002 (Weolustee Creek)

Item	Annual Cost (USD)	Notes
Outfall 001 Total	$3,000	Annual O&M expenses
Outfall 002 Total	$9,000	Annual O&M expenses
Combined Total (Form 313)	$12,000	Used for ADEM Form 311 antidegradation comparison

The applicant is required to supply outfall number(s) as it appears on the map(s) required by this application [if this application is for a modification to an existing permit do not change the numbering sequence of the permitted outfalls], describe each, (e.g., pipe, spillway, channel, tunnel, conduit, well, discrete fissure, or container), and identify the origin of pollutants. The response must be precise for each outfall. If the discharge of pollutants from any outfall is the result of commingling of waste streams from different origins, each origin must be completely described.

Description of Origin of Pollutants – typical examples: (1) Discharge of drainage from the underground workings of an underground coal mine, (2) Discharge of drainage from a coal surface mine, (3) Discharge of drainage from a coal preparation plant and associated areas, (4) Discharge of process wastewater from a gravel-washing plant, (5) Discharge of wastewater from an existing source coal preparation plant, (6) Discharge of drainage from a sand and gravel pit, (7) Pumped discharge from a limestone quarry, (8) Controlled surface mine drainage (pumped or siphoned), (9) Discharge of drainage from mine reclamation, (10) Other (please describe):

Outfall	Discharge structure Description	Description of Origin of pollutants	Surface Discharge	Groundwater Discharge	Wet Prep -Other Production Plant	Pumped or Controlled Discharge	Low Volume STP
001P	Spillway	9, 10	X	N/A	N/A	None	N/A
002P	Spillway	9, 10	X	N/A	N/A	None	N/A
		10 - Discharge of stormwater from active surface mine					

The applicant is required to supply the following information separately for every proposed (P) or existing (E) outfall. List expected average daily discharge flow rate in cfs and gpd; frequency of discharge in hours per day and days per month; average summer and winter temperature of discharge(s) in degrees centigrade; average pH in standard units; and average daily discharges in pounds per day of BOD5, Total Suspended Solids, Total Iron, Total Manganese, and Total Aluminum (if bauxite or bauxitic clay or if otherwise believed present):

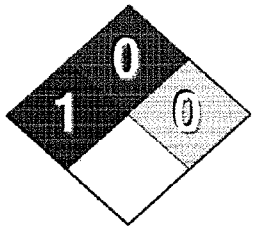
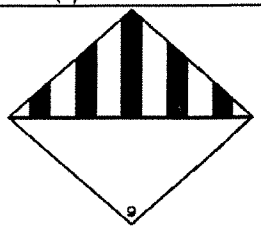
Outfall E/P	Information Source - # of Samples	Flow (cfs)	Flow (gpd)	Frequency (hours/day)	Frequency (days/month)	Sum/Win Temp, (°C)	pH (s.u.)	BOD5 (lbs/day)	TSS (lbs/day)	Tot Fe (lbs/day)	Tot Mn (lbs/day)	Tot Al (lbs/day)
001P	Similar Project[1]	0.11[2]	69897[2]	Stormwater	Stormwater	28/7	7.22	0.000883	7.8106	2.3333	0.1909	0.9817
002P	Similar Project[1]	0.32[2]	207281[2]	Stormwater	Stormwater	28/7	7.22	0.002617	23.1626	6.9194	0.5660	2.9113
[1]	Concentrations taken from AL0058629 Uchee Mine Outfall 002E historical data											
[2]	Average flow rates determined using proposed drainage areas reporting to each outfall and average rainfall amount of 54" per year											

The applicant is required to supply the following information separately for every proposed or existing outfall. Identify and list expected average daily discharge of any other pollutant(s) listed in EPA Form 2C Tables A, B, C, D, and E that are not referenced in Part XVI.B. or otherwise submitted elsewhere, that you know is present or have reason to believe could be present in the discharge(s) at levels of concern:

Outfall E/P	Reason Believed Present	Information Source - # of Samples								
			lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L
001P	Not Applicable									
002P	Not Applicable									

MATERIAL SAFETY DATA SHEET

General Chemical

NFPA	HMIS	PPE	Symbol(s)
			 Regulated

Current Issue Date: November 30, 2011	Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Dry Alum
Other/ Generic Names:	Aluminum Sulfate
Recommended Use:	Water treatment. Food additive. Various industrial uses.
Manufacturer:	General Chemical, LLC 90 East Halsey Road Parsippany, NJ 07054 General Chemical Performance Products Ltd. 90 East Halsey Road Parsippany, NJ 07054
For More Information:	Customer Service USONLY: 800 631 8050 (Monday – Friday 9:00AM – 4:30PM) Customer Service CANADA ONLY: 866 543 3896 (Monday – Friday 9:00AM – 4:30PM)
Emergency Telephone Number:	USONLY CALL CHEMTREC: 800 424 9300 (24 Hours/ Day, 7 Days/ Week) CANADA ONLY CALL CANUTEC: 613 996 6666 (24 Hours/ Day, 7 Days/ Week)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: White or creamy white granules or powder with a negligible odor. Can irritate the skin and eyes. May be harmful if swallowed. Not flammable, but may release toxic vapors if decomposed in a fire.

OSHA Status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Potential Health Affects	
Skin:	May cause skin irritation, especially under repeated or prolonged contact, or when moisture is present.
Eyes:	May irritate or burn the eyes.
Inhalation:	Product mists or dust may cause irritation to the respiratory tract if inhaled above the TLV levels.
Ingestion:	May irritate the gastrointestinal tract.
Delayed Effects:	None known.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Aluminum sulfate	10043 01 3	57.6 (anhydrous)

Dry Alum

4. FIRST AID MEASURES	
Eye Contact	Immediately flush eyes with water for at least 15 minutes. Get medical attention if irritation persists.
Skin Contact	Flush with plenty of water, removing contaminated clothing. If irritation develops, get medical attention.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get prompt medical attention.
Ingestion	Do not induce vomiting. Immediately give large quantities of water. Get medical attention immediately.
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES	
Flammable Properties	
FLASH POINT:	Not Flammable
FLASH POINT METHOD:	Not Applicable
AUTOIGNITION TEMPERATURE:	Not Applicable
UPPER FLAME LIMIT (VOLUME% IN AIR):	Not Applicable
LOWER FLAME LIMIT (VOLUME% IN AIR):	Not Applicable
FLAME PROPAGATION RATE (SOLIDS):	Not Applicable
OSHA FLAMMABILITY CLASS:	Not Applicable
SUITABLE EXTINGUISHING MEDIA:	Water spray, foam, carbon dioxide or dry chemical
UNSUITABLE EXTINGUISHING MEDIA:	No information available
Explosion Limits	
Hazardous Combustion Products	No information available
Impact sensitivity	No information available
Sensitivity to static discharge	No information available
Specific Hazards Arising from the Chemical	Keep product and empty container away from heat and sources of ignition.
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus (SCBA) and full protective equipment. Use water spray to keep containers cool.

6. ACCIDENTAL RELEASE MEASURES	
IN CASE OF SPILL OR OTHER RELEASE	Shovel material and place in clean, dry container and cover. Collect liquid and/or residue and dipsose of in accordance with applicable regulations.

7. HANDLING AND STORAGE	
Handling	Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. Remove contaminated clothing and wash thoroughly after handling.
Storage	Keep storage container tightly closed. Store in a cool, dry, well-ventilated area or cabinet. Isolate from incompatible substances.

Dry Alum

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico OEL (TWA)	NIOSH IDLH
Aluminum sulfate	2 mg/m^3	2 mg/m^3		TWA: 2 mg/m^3	

Engineering Measures Use local exhaust to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eye/ Face Protection Wear chemical safety goggles. Do not wear contact lenses.

Skin Protection Wear appropriate personal protective clothing to prevent skin contact.

Respiratory Protection A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

General Hygiene Considerations To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR 1910.132) be conducted before using this product. Eyewash and safety showers are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White or creamy white granules or powder
Color	White or creamy white
Chemical Formula	$Al_2(SO_4)_3 \cdot 14H_2O$
Odor	None
Odor Threshold	No information available
Physical State	Solid
pH	3.5 (aqueous solution)
Flash Point	Not flammable
Autoignition Temperature	Not applicable
Boiling Point/ Range	Not applicable
Melting Point/ Range	Not applicable
Flammability Limits in Air	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available
Evaporation Rate	Not determined
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Specific Gravity	1.61
Partition Coefficient (n-octano/ water)	No information available
Viscosity	No information available
Molecular Weight	594
Water Solubility	50% at 0°C
VOC Content (%)	0

Dry Alum

10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable.
Conditions to Avoid	Avoid temperatures above 760°C, as this will yeild toxic and corrosive gases.
Incompatible Products	Alkalis and water reactive materials such as oleum; causes exothermic reactions.
Hazardous Decomposition Products	At elevated temperatures, sulfur oxides may be formed. These are toxic and corrosive and are oxidizers. Sulfur trioxide is also a fire hazard. The loss of these gases leaves a caustic residue.
Possibility of Hazardous Reactions	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Aluminum sulfate	1930 mg/kg (rat) 6207 mg/kg (mouse)		

Irritation	No information available
Corrosivity	No information available
Sensitization	No information available

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product.
Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Teratogenicity	No information available
Target Organ Effects	No information available
Other Adverse Effects	No information available
Endocrine Disruptor Information	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Aluminum sulfate		LC50 = 100 mg/L Carassius auratus 96 h LC50 = 37 mg/L Gambusia affinis 96 h		EC50 = 136 mg/L 15 min

Persistence and Degradability	No information available
Bioaccumulation	No information available
Mobility in Environmental Media	No information available
Other adverse affects	**Aluminum sulfate component:** 14 ppm/36 hr/fundulus/fatal/fresh water; 240 ppm/48 hr/mosquito fish/TLm/water type not specified; TLm Mosquito fish, 235 ppm, 96 hours; LC50 Largemouth bass, 250 ppm, 96 hours

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of waste in accordance with all federal, state, and local regulations.
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal.

Dry Alum

14. TRANSPORT INFORMATION

DOT	Regulated
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s. (contains aluminum sulfate)
Hazard Class	9
UN-No	UN3077
Packing Group	PGIII
TDG	Regulated
Hazard Class	9
UN-No	UN3077
Packing Group	PGIII

15. REGULATORY INFORMATION

International Inventories

TSCA	Yes
DSL	Yes
ELINCS	No
EINECS	Yes
ENCS	Yes
CHINA	Yes
KECL	Yes
PICCS	Yes
AICS	Yes

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372: None

SARA 311/312 Hazardous Categorization

Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Aluminum sulfate	5000 lbs (anhydrous) 8684 lbs (dry)			X

CERCLA

Component	CERCLA RQ (lb)	SARA TPQ (lb)
Aluminum sulfate	5000 lbs (anhydrous) 8684 lbs (dry)	

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Dry Alum

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Aluminum sulfate	X	X	X		

Other International Regulations

Mexico No information available

Canada This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class	
D2B Toxic materials	

16. OTHER INFORMATION

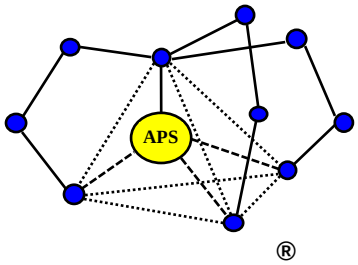
Current Issue Date:	November 30, 2011
Previous Issue Date:	April 22, 2010
Revision Summary:	Convert to GC Template

Disclaimer:

All information, statements, data, service and/or recommendations, including, without limitation, those relating to storage, loading/unloading, piping and transportation (collectively referred to herein as "information") are believed to be accurate and reliable. However, no representation or warranty, express or implied, is made as to its completeness, accuracy, fitness for a particular purpose or any other matter, including, without limitation, that the practice or application of any such information is free of patent infringement or other intellectual property misappropriation. General Chemical, LLC is not engaged in the business of providing technical, operational, engineering or safety information for a fee, and therefore; any such information provided herein has been furnished as an accommodation and without charge. All information provided herein is intended for use by persons having requisite knowledge, skill, and experience in the chemical industry. General Chemical, LLC shall not be responsible or liable for the use, application or implementation of the information, provided herein, and all such information is to be used at the risk, and in the sole judgment and discretion, of such persons, their employees, advisors and agents.

End of MSDS

Applied Polymer Systems, Inc.



®

Safety Data Sheet

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: APS 712 Silt Stop

Supplied:
Applied Polymer Systems Inc.
Woodstock, GA 30189
Tel. 678-494-5998
Fax. 678-494-5298
www.siltstop.com

2. HAZARD IDENTIFICATION

Aqueous solutions and powders that become wet render surfaces extremely slippery.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation: Anionic water-soluble co-polymer blend

4. FIRST AID MEASURES

Inhalation: Move to fresh air. Wear dust mask while handling.

Skin contact: Contact with wet skin could cause chapping and dryness. Wash with water and soap. In case of persistent skin irritation, consult a physician.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids, seek medical attention in case of persistent irritation.

Ingestion: Consult a physician

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water, water spray, foam, carbon dioxide, dry powder.
Special fire-fighting precautions: Aqueous solutions or powders that become wet render surfaces extremely slippery.
Protective equipment for firefighters: No special equipment required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: No special precautions required.

Methods for cleaning up: Do Not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid dust formation. Do not breath dust. Use dust mask during handling. Wash hands after handling.

Storage: Keep in a cool, dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: **Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dust.**

Personal protection equipment

Respiratory Protection: **Dust safety masks are recommended where dusting may occur.**
Hand protection: **Dry cloth, leather or rubber gloves.**
Eye Protection: **Safety glasses with side shields or face masks. Do not wear contact lenses.**
Skin protection: **No special protective clothing required.**
Hygiene measures: **Wash hands before breaks and at end of work day.**

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: **Granular solid**
Color: **White / Brown**
Odor: **None**
pH: **7.02**
Melting point: **N/A**
Flash point: **N/A**
Vapor density: **N/A**

10. STABILITY AND REACTIVITY

Stability: **Product is stable, no hazardous polymerization will occur.**
Materials to avoid: **Oxidizing agents may cause exothermic reactions.**
Hazardous decomposition products: **Thermal decomposition may produce nitrogen oxides (NOx), carbon oxides.**

11. TOXICOLOGICAL / ECOLOGICAL INFORMATION

Oral: **LD 50 / *Rattus norvegicus* / oral / > 5000 mg / kg**
Inhalation: **The product is not expected to be toxic by inhalation. Use dust mask while handling.**
Bioaccumulation: **The product is not expected to bioaccumulate.**
Persistence / degradability: **Not readily biodegradable: (~40% after 28 days)**

Acute toxicity

LC 50 / *Ceriodaphnia dubia* / 48h / 1,617 ppm
LC 50 / *Pimephales promelas* / 48 h / >6,720 ppm
LC 50 / *Pimephales promelas* / 96 h / >6,720 ppm

Chronic toxicity

IC 25 (Survival) / *Ceriodaphnia dubia* / 7day / 122.5 ppm
NOEC (Survival) / *Ceriodaphnia dubia* / 7day / 52.5 ppm

IC 25 (Reproduction) / *Ceriodaphnia dubia* / 7day / 59.3 ppm
NOEC (Reproduction) / *Ceriodaphnia dubia* / 7day / 52.5 ppm

12. DISPOSAL CONSIDERATIONS

Waste from residues/unused products.
Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules).

13. TRANSPORT AND REGULATORY INFORMATION

Not regulated by DOT, **RCRA status-Not a hazardous waste**

NFPA and HMIS ratings:

NFPA	**Health:**	**1**	**Flammability:**	**1**	**Reactivity:**	**0**
HMIS	**Health**	**1**	**Flammability**	**1**	**Reactivity**	**0**

Spill Prevention, Control, and Countermeasures Plan

FOR

General Shale
wienerberger
dba
Columbus Brick
SINCE 1890

Pittsview Mine
NPDES Permit No.: Pending

RUSSELL COUNTY
PITTSVIEW, ALABAMA

December 2025

TABLE OF CONTENTS

SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN

GENERAL INFORMATION

Name of Operations: Columbus Brick
Pittsview Mine

Address of Operations: U.S. Highway 431
Pittsview, Alabama 36871

Type of Operations: Mining of Shale and Clay

Management Approval to implement this plan as described herein.

Signature: _____

Name: Mickey Salter

Title: Plant Manager

Signature: _____

Name: J David McKeown

Title: Director of Environmental Compliance

NEED FOR SPILL PLAN

Fuel/oil storage tanks are not currently used at this mine since it only needs to operate a few months of the year. Fuel is brought in by the mining contractor on an as needed basis and supplied directly to the equipment. However, if tanks were to be used, this Spill Plan has been developed to support that situation and written as if they were already installed.

FACILITY LAYOUT AND OIL STORAGE

The fuel/oil storage tanks at the mine are aboveground tanks with the materials and construction of the tanks compatible with the fluid stored. These tanks are listed in Appendix A with a summary of the capacity, contents, tank type, and spill containment. The location of these tanks is shown on the facility map.

DISCHARGE PREVENTION MEASURES

Routine handling of oil and fuel is primarily accomplished via transport by tanker truck and pump or by drum. The primary discharge prevention measures are 1) inspection and testing of tanks and piping, 2) dispensing fuel at the tank location with an employee supervising the transfer, 3) using auto-shutoff valves on the fuel dispensers, and 4) moving oils that are not piped in closed containers only.

Bulk oil storage tanks are designed and constructed to be compatible with the oil product they are containing and with the temperature and pressure required by the conditions of the oil. The storage tanks have:

- An adequate storage capacity to assure that container will not overfill.
- Secondary containment in the form of a double-walled tank. If a dike is used it will be sized to the volume of the largest tank within the containment area plus sufficient freeboard to allow for precipitation. The secondary containment for each tank is listed in Appendix A.
- A system for determining the liquid level of each tank and to prevent overfilling. Direct vision gauges, periodic gauging, and inspections are used.

All storage areas, vessels (unless permanently closed), and equipment shall be inspected and/or tested according to the following:

> Observances of general storage conditions are made during routine operations (e.g. transferring oil or fuel). The operator will visually inspect the exterior portion of all tanks, valves, supports, and joints for corrosion, leaks, settlement, or any other damage. If a leak is found or if something that could cause a spill is detected, the operator will notify his/her Supervisor immediately who will subsequently contact the Plant Manger.

Filling and unloading oil tanks are covered in the Truck Loading and Unloading section.

DISCHARGE AND FACILITY DRAINAGE CONTROLS

Appropriate containment and/or diversionary structures or equipment to prevent discharges of oil from reaching a navigable watercourse shall be provided. One of the following preventive systems or its equivalent shall be used as a minimum when the possibility of a spill could enter these waters:

1. Double-walled tanks.
2. Dikes, berms, or retaining walls sufficiently impervious to contain spilled material and sized for the capacity of the largest tank in the dike plus freeboard
3. Curbs
4. Culverts, gutters, or other drainage systems
5. Interceptor and/or diversion ditches
6. Equipment sumps
7. Absorbent materials

The specific secondary containment system used at this facility is listed in Appendix A.

Drains from diked areas have valves or other positive means to prevent an oil spill. Valves are manual, open-and-closed design. Valves are locked to prevent vandalism or unintended opening.

The dikes and sumps are inspected at regularly scheduled intervals for accumulations of oil. If oil is found, it will then be removed as quickly as possible and, if feasible, returned to a used oil tank. A vacuum truck, portable pump, absorbent materials, or the most practicable method will be used to remove the oil.

All secondary containment features shall be inspected according to the following:

1. Secondary containment dikes will be inspected during routine operations for evidence of wear or other damage that might affect the integrity of the dike.
2. Any oil found in containment areas will be removed by the most practicable method, i.e., skimming with equipment or absorbent materials, scraping and shoveling, or portable pump.
3. Problems causing oil to leak will be promptly corrected.

Rainwater in diked areas may be drained or pumped to the surface outside the dikes by an operator familiar with this plan only if the rainwater does not have an oil-sheen on the surface or oil sludge/emulsion beneath the surface.

The procedure for the drainage of rainwater from secondary containment is as follows:

1. Visually inspect the water in the secondary containment structures for oil.
2. Remove or segregate the floating hydrocarbons from any water to be discharged as indicated above. Rainwater with emulsified oil or sludge may not be discharged to the surface.

3. Release the rainwater to the surface and remain in the area while the drainage occurs. Do not leave the area with the dike drain valve open.
4. Close the dike drain valve when drainage is complete or when leaving the area.

COUNTERMEASURES FOR DISCHARGE, DISCOVERY, RESPONSE, AND CLEANUP

In the event that an oil spill does occur, the following procedures will be followed:

1. All spills or leaks shall be investigated immediately and the appropriate actions taken to stop, contain, and immediately begin cleaning up the spill. The basic spill response is:
    a. *Determine the source* and type of spill.
    b. *Evacuate* any employees requiring medical attention.
    c. *Isolate the area*.
    d. *Eliminate all sources of ignition*. Extinguish and/or remove the ignition source or channel the spilled material away from the source of ignition.
    e. *Stop the source of the spill if the conditions are safe* (watch for fire, fumes, slippery conditions).
    f. *Contain the spill*. Loose shale is available for the containment of oil spills outside of the containment structures.
    g. *Notify* your Supervisor who shall notify the Plant Manager.
2. In the event of a flowline spill, the appropriate control valves(s) must be closed immediately to stop the flow of oil. Furthermore any equipment using or generating the oil will be shut down at this time.
3. A spill at the tank location would likely run toward the drainage to the east into Basin No. 1. Use shale and/or absorbent materials (socks) to contain the spill away from the basin.
4. In the event of a leaking drum, place the drum so that the leak is facing up. Then contain the spilled material with absorbent materials.
5. Perform or observe proper cleanup measures as directed by the Supervisor in charge. Company and/or contract cleanup crews will be dispatched to the spill site to begin cleanup. A listing of key company personnel, contractors, and local emergency response agencies are presented in Appendix B.
    a. Cleanup procedures and PPE requirements are found in the Material Safety Data Sheets for the spilled material.
    b. Recover spilled material via pump, absorbent materials, or contract vacuum truck.

c. Place oil-soaked absorbent materials (like Oil Dry™) and/or soil onto the covered stockpile at the plant.

d. Clean the area of the spill to prevent employee slips and falls. Clean/ remediate the area to prevent contamination of future rainwater that may come in contact with the area.

e. Clean the tools used prior to placing them back in to the spill kit.

f. Restock the spill kit(s) to replace the materials used in the spill response and cleanup efforts.

6. If the company crew(s) is unable to adequately contain the spill, the supervisor of the cleanup operations shall notify the Plant Manager. Upon this notification, additional manpower and equipment will be dispatched to the spill and cleanup. The additional manpower options are listed in Appendix B.

DISPOSAL OF RECOVERED MATERIALS

Cleanup materials must be disposed of in accordance with federal and state waste regulations. The Environmental Engineer will determine the proper method for disposal of the spilled materials that cannot be returned to the stockpile (e.g. socks and pads) by developing a disposal profile for submission to a permitted landfill.

SPILL RESPONSE CONTACT LIST AND FACILITY COORDINATOR

All spills shall be reported to supervisors. If oil has (or could) reach the waters of the State, notify the Plant Manager IMMEDIATELY (See Appendix B).

The Plant Manager will complete the Spill Incident Report (Appendix C) and, as required by law, will notify the regulatory authorities.

Appendix D, "Spill Response Procedures Guide", is a quick reference meant to be readily usage in case of a discharge.

POTENTIAL SPILL CHARACTERISTICS

Though unlikely, equipment failure could cause a spill ranging in volume from 0 to 1000 gallons oil. The worst case spill would be a major tank rupture with the rate of flow of oil equal to the volume of the tank per minute (instantaneously). Potential spill events are outlined below. If an oil spill were to occur outside of the containment dike, the expected flow direction is to the east.

Potential Event	Volume Released
Complete failure of a full tank	Up to the tank capacity. See Appendix A for capacities.

Partial failure of a full tank	Up to the tank capacity. See Appendix A for capacities.
Tank overfill	1 to 1,000 gallons
Leaking pipe or valve	1 to 1,000 gallons
Pump rupture or failure	1 to 1,000 gallons

TRAINING OF SPILL PREVENTION PROCEDURES

Personnel are instructed in the following:

1. Operation, maintenance, and inspection of equipment to prevent fluid discharges,
2. Spill containment procedures,
3. Applicable pollution control laws, rules, and regulations,
4. General facility operations
5. Contents of this SPCC plan

The Plant Manager is accountable for spill prevention at this facility. See Appendix B for the key personnel contact list.

SPCC Plan/pollution prevention briefings are conducted as needed to assure that the appropriate operating personnel have an adequate understanding of SPCC Plan requirements. These briefings will include:

1. A review of the SPCC Plan
2. Highlight and describe known discharges or failures of the spill equipment or Plan
3. Recently developed precautionary measures

TRUCK LOADING AND UNLOADING

This facility does not have a tank truck loading/unloading rack. However, tank truck transfer operations are continuously monitored for leaks or spills and must be directly supervised by the tank truck driver, a mine operator, or supervisor familiar with the transfer operations.

The person(s) supervising the transfer operations must make certain that all hoses are disconnected and valves tightly closed before the tanker is moved.

Appendix A

Oil Storage and Containment

Contents	Tank Location	Tank Capacity	Tank Construction	Secondary Containment	Tank Drain Security
Diesel	Near Stockpile	1000 gal.	Steel Double-Wall	N/A	Plugged
Oil	Near Stockpile	30 – 55 gal.	Steel	Earthen Berm	N/A

These tanks are only on site during active mine operations.

Appendix B

Response Companies, Personnel, and Regulatory Agencies

Response Companies, Personnel, and Regulatory Agencies

KEY PERSONNEL

1.	Mickey Salter, Plant Manager	706-249-2102
2.	Brian Tayler, Production Manager	762-207-0553
3.	David McKeown	803-351-0635

SUB-CONTRACTORS AVAILABLE ON A TWENTY-FOUR (24) HOUR BASIS:

Alexanders Industrial Services
515 Industrial Drive
Phenix City, AL 36869
334-855-4775

HEPACO Chattanooga Office
4131 South Creek Road, Chattanooga, TN 37406
800-888-7689

GOVERNMENT AGENCIES

- Fire Department 911

For Oil Spills to Waters of the United States

- The U. S. EPA National Response Center
  Phone: 1-800-424-8802 (24 hours a day)

- State of Alabama, Department of Environmental Management
  Phone: 1-800-843-0699 or
  1-205-942-6168 (Birmingham Field Office - Business Hours)

For Oil Spills greater than 1000 gallons (or greater than 42 gallons twice in a 12 month period) and reaching Waters of the U.S.

Submit the information in the Spill Incident Report – Appendix C for these types of spills within 60 days of the spill occurrence to:

EPA Regional Administrator, US EPA Region IV
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303-8960

Appendix C

Spill Incident Report

SPILL INCIDENT REPORT

1. Complete this form
2. Use information to report spill as indicated in the SPCC Plan
3. File form with the SPCC Plan

Site: Columbus Brick – Pittsview Mine

Address: U.S. Highway 431

Pittsview, Alabama 36871

Spill Date: _____ Time: _____

Material Spilled: _____
Oil Wastewater Antifreeze Other

Total Amount spilled (Gallons) _____
If greater than 1000 gallons or this is the second spill of 42 gallons or more this year then submit this report to EPA Region IV

Amount Spilled to Creek (if necessary):_____

Source of Spill_____

Media (dirt / gravel) Receiving Spill _____

Cause of Spill _____

_____

Damages/Injuries _____

Actions to Stop Spill and Cleanup _____

_____

Was Evacuation Needed: Yes No

Names of Individuals or Organizations Contacted _____

_____

If this report is submitted to EPA Region IV include description of facility (maps, flow direction)

AL DEM.....(800) 843-0699 or (205) 942-6168

EPA Nat'l Response Center .....(800) 424-8802

Appendix D

Spill Response Reference Guide

Spill Response Reference Guide

Spill Response

1. Identify spilled material
2. Evacuate any injured personnel
3. Isolate the area
4. Note potential hazards: flammable vapors, slippery footing
5. Stop the source of the spill if conditions are safe
6. Note direction of flow of the spilled material
7. Contain spilled material using absorbent material, temporary dikes using a front-end loader or dozer
8. Cleanup oil and oil soaked material
9. Contact Environmental Engineer to determine proper disposal
10. Plant Manager or Environmental Engineer will report spill as indicated in the "Spill Response Contact List" section

Personal Protective Equipment

Boots, Gloves, Safety Glasses

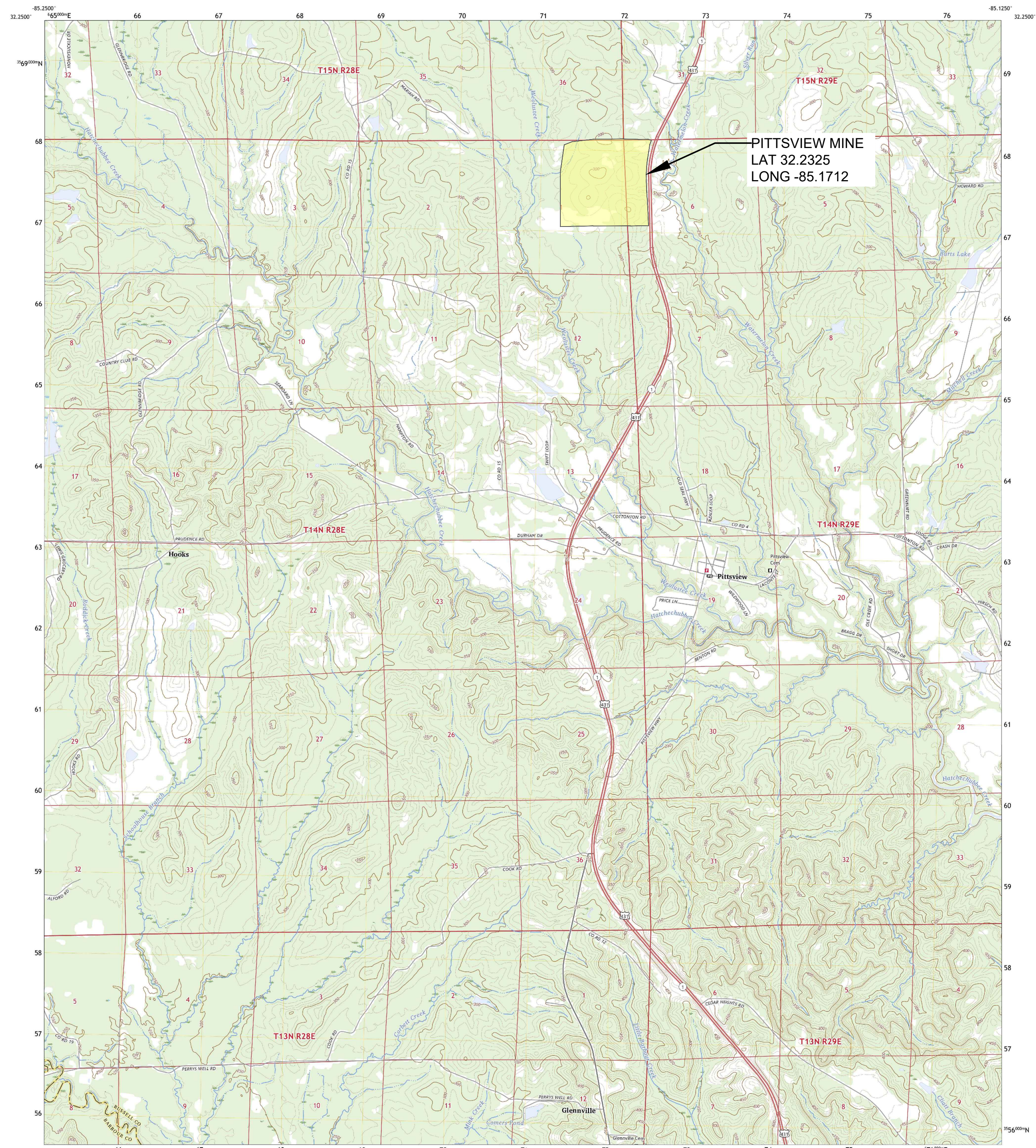
Response Equipment (Stored in Mining Office)

Absorbent Materials – Shale, Pads, Socks
Shovels
Drums
Front-End Loader- Dirt

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map
US Topo

PITTSVIEW QUADRANGLE
ALABAMA
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 16S

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery....NAIP, September 2019 - October 2019
Roads....U.S. Census Bureau, 2016 - 2017
Names....GNIS, 1980 - 2023
Hydrography....National Hydrography Dataset, 2005 - 2022
Contours....National Elevation Dataset, 2020
Boundaries....Multiple sources; see metadata file 2021 - 2022
Public Land Survey System....BLM, 2020
Wetlands....FWS National Wetlands Inventory 1981 - 1981

MN GN 4°44´ 84 MILS 0°58´ 17 MILS

UTM GRID AND 2023 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
FA
Grid Zone Designation
16S

SCALE 1:24 000

KILOMETERS
METERS
MILES
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

ALABAMA
QUADRANGLE LOCATION

1 Hatchechubbee
2 Seale
3 Fort Mitchell
4 Rutherford
5 Omaha
6 Batesville
7 Howe
8 Twin Springs

ADJOINING QUADRANGLES

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

PITTSVIEW, AL
2024

NSN. 7643016352509
NGA REF NO. USGSX24K71252

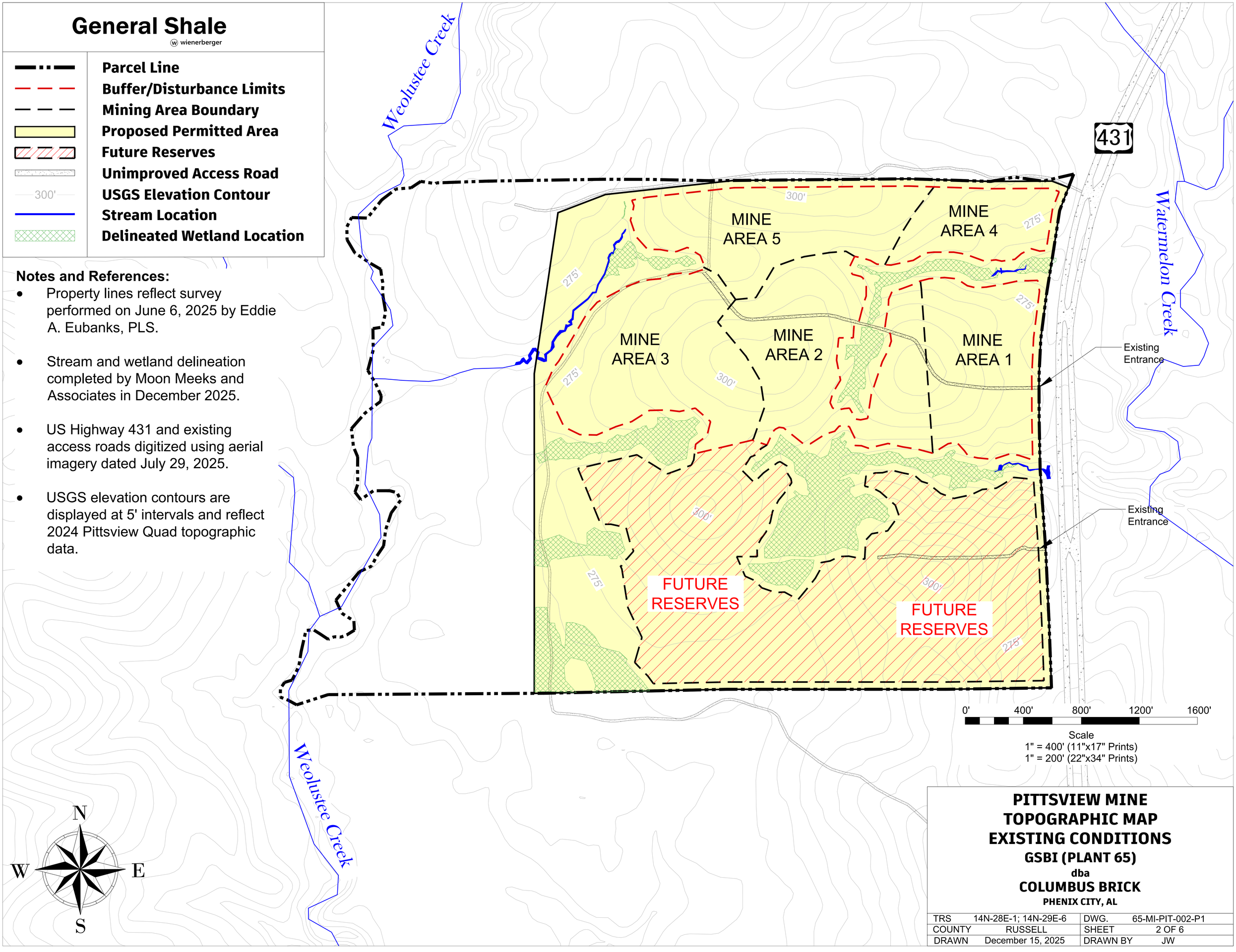
General Shale

wienerberger

- Parcel Line
- Buffer/Disturbance Limits
- Mining Area Boundary
- Proposed Permitted Area
- Future Reserves
- Unimproved Access Road
- 300' USGS Elevation Contour
- Stream Location
- Delineated Wetland Location

Notes and References:

- Property lines reflect survey performed on June 6, 2025 by Eddie A. Eubanks, PLS.
- Stream and wetland delineation completed by Moon Meeks and Associates in December 2025.
- US Highway 431 and existing access roads digitized using aerial imagery dated July 29, 2025.
- USGS elevation contours are displayed at 5' intervals and reflect 2024 Pittsview Quad topographic data.



Scale
1" = 400' (11"x17" Prints)
1" = 200' (22"x34" Prints)

PITTSVIEW MINE
TOPOGRAPHIC MAP
EXISTING CONDITIONS

GSBI (PLANT 65)
dba
COLUMBUS BRICK
PHENIX CITY, AL

TRS	14N-28E-1; 14N-29E-6	DWG.	65-MI-PIT-002-P1
COUNTY	RUSSELL	SHEET	2 OF 6
DRAWN	December 15, 2025	DRAWN BY	JW

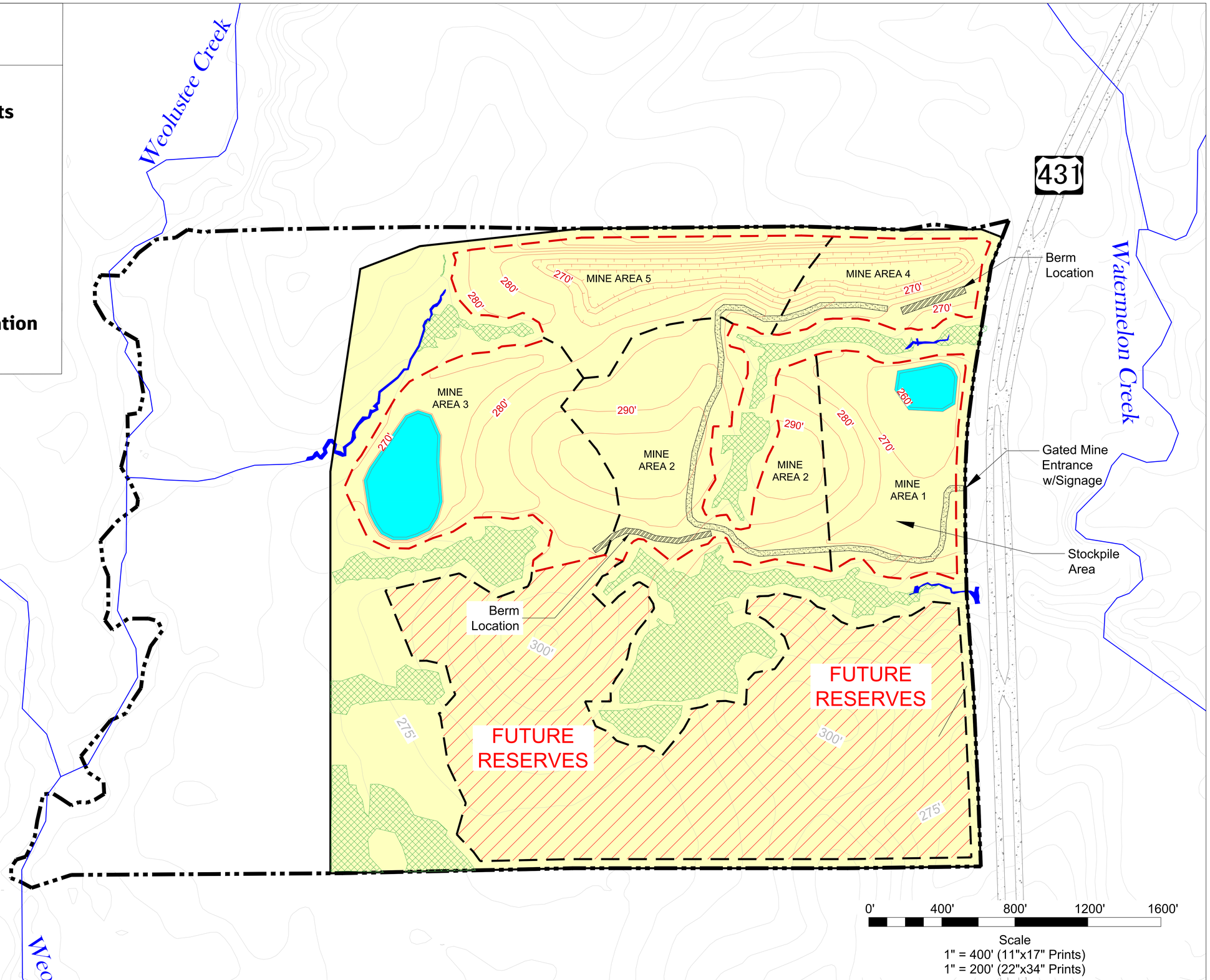
General Shale

wienerberger

- Parcel Line
- Buffer/Disturbance Limits
- Mining Area Boundary
- Permitted Area
- Future Reserves
- Haul Road
- 290' USGS Elevation Contour
- 300' Final Mining Contour
- Stream Location
- Delineated Wetland Location
- Sediment Basin

Notes and References:

- Property lines reflect survey performed on June 6, 2025 by Eddie A. Eubanks, PLS.
- Stream and wetland delineation completed by Moon Meeks and Associates in December 2025.
- US Highway 431 and existing access roads digitized using aerial imagery dated July 29, 2025.
- USGS elevation contours are displayed at 5' intervals and reflect 2024 Pittsview Quad topographic data.
- Projected final mining elevation contours derived from 2025 prospecting data.



Scale
1" = 400' (11"x17" Prints)
1" = 200' (22"x34" Prints)

N W E S

PITTSVIEW MINE
DETAILED FACILITY MAP
MINE PLAN
GSBI (PLANT 65)
dba
COLUMBUS BRICK
PHENIX CITY, AL

TRS	14N-28E-1; 14N-29E-6	DWG.	65-MI-PIT-003-P1
COUNTY	RUSSELL	SHEET	3 OF 6
DRAWN	December 15, 2025	DRAWN BY	JW

General Shale

wienerberger

- Parcel Line
- Buffer/Drainage Area
- Proposed Permitted Area
- Future Reserves
- Haul Road
- USGS Elevation Contour
- Final Mining Contour
- Stream Location
- Delineated Wetland Location
- Sediment Basin
- Surface Flow Direction
- NPDES Outfall

Notes and References:

- Property lines reflect survey performed on June 6, 2025 by Eddie A. Eubanks, PLS.
- Stream and wetland delineation completed by Moon Meeks and Associates in December 2025.
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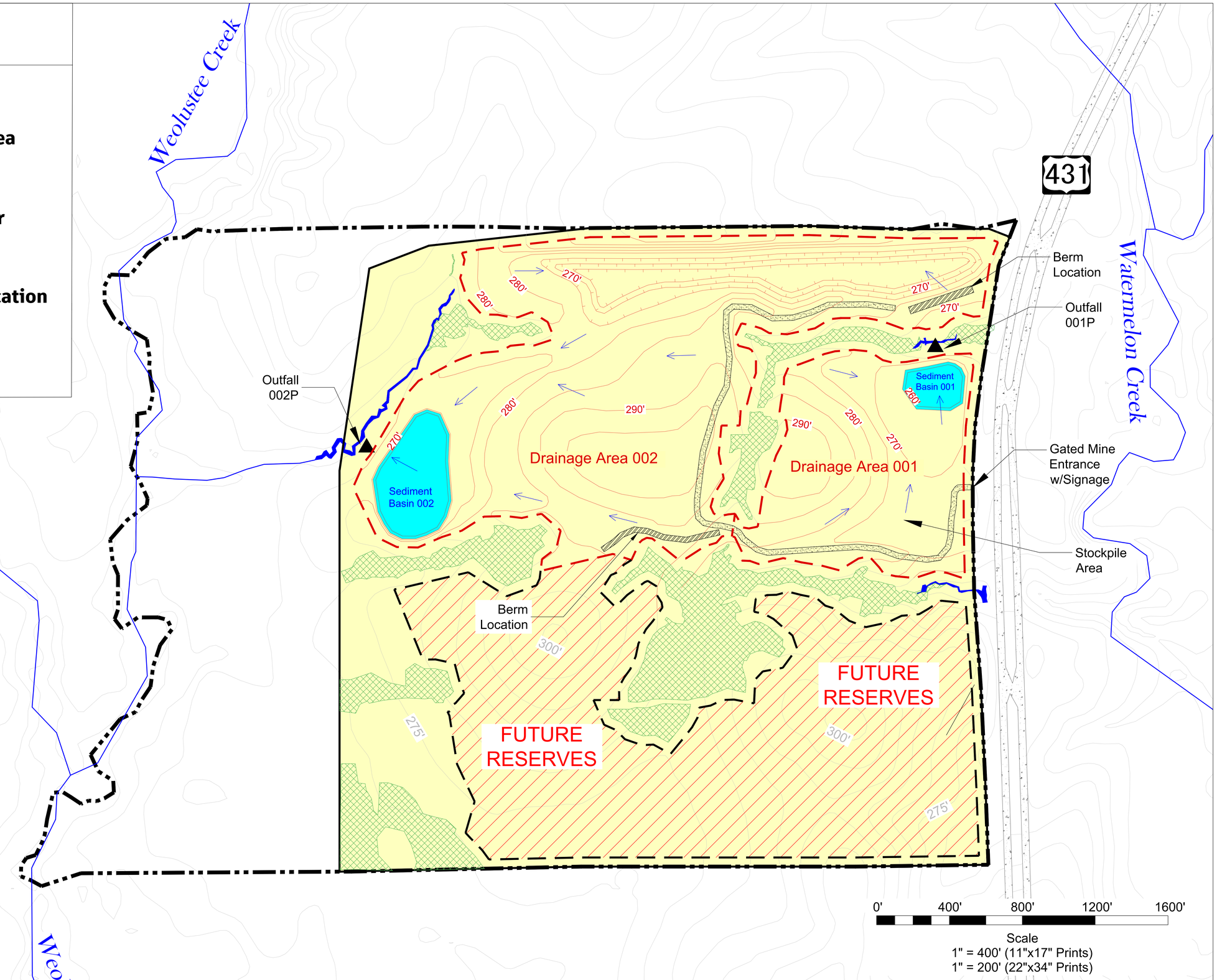


0' 400' 800' 1200' 1600'

Scale
1" = 400' (11"x17" Prints)
1" = 200' (22"x34" Prints)

N W E S

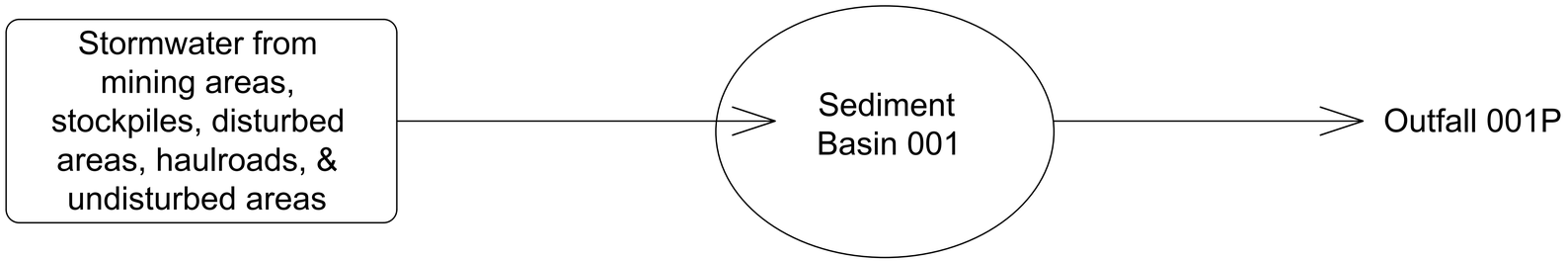
PITTSVIEW MINE
DETAILED FACILITY MAP
DRAINAGE CONTROL PLAN
GSBI (PLANT 65)
dba
COLUMBUS BRICK
PHENIX CITY, AL

TRS	14N-28E-1; 14N-29E-6	DWG.	65-MI-PIT-004-P1
COUNTY	RUSSELL	SHEET	4 OF 6
DRAWN	December 15, 2025	DRAWN BY	JW

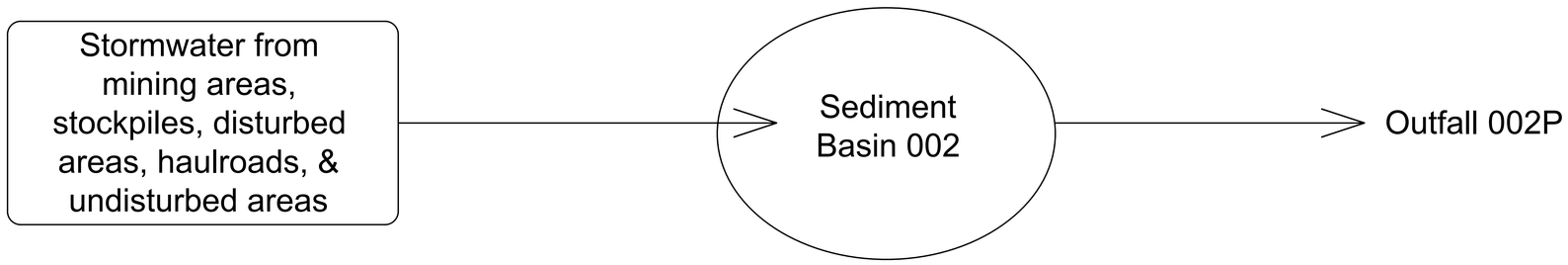
001P

General Shale

wienerberger

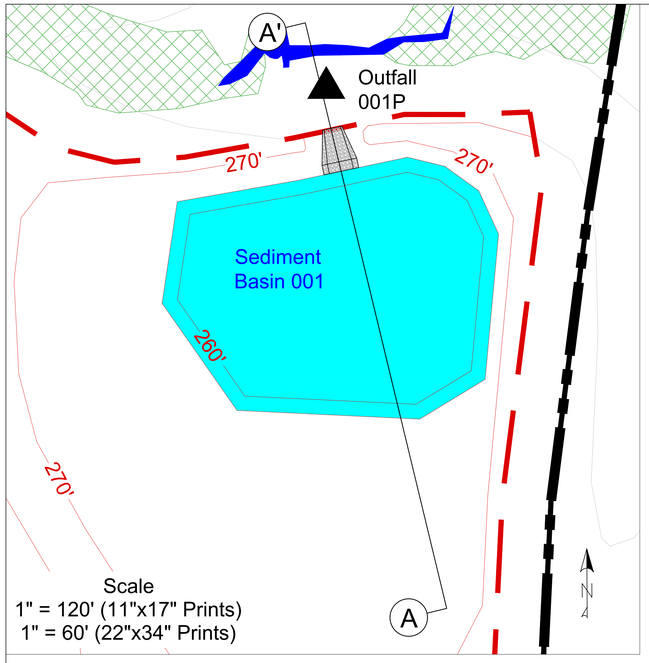


002P



PITTSVIEW MINE
FACILITY SCHEMATICS
PROCESS FLOW DIAGRAM
GSBI (PLANT 65)
dba
COLUMBUS BRICK
PHENIX CITY, AL

TRS	14N-28E-1; 14N-29E-6	DWG.	65-MI-PIT-006-P1
COUNTY	RUSSELL	SHEET	6 OF 6
DRAWN	December 15, 2025	DRAWN BY	JW



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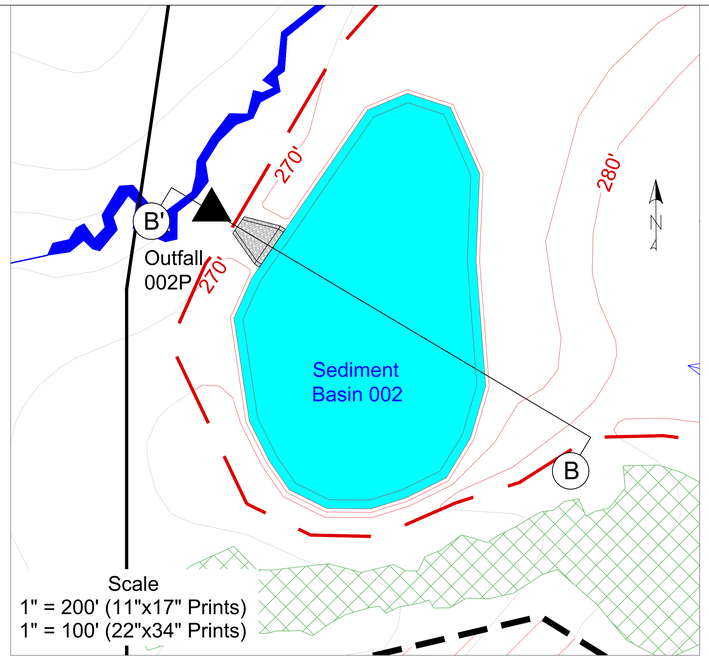

Scale
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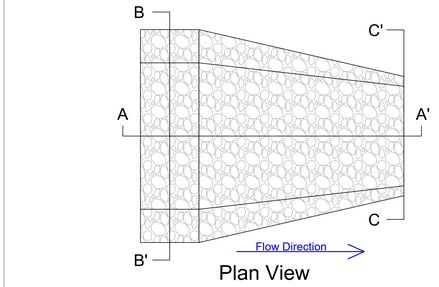
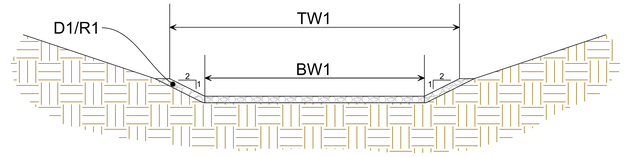
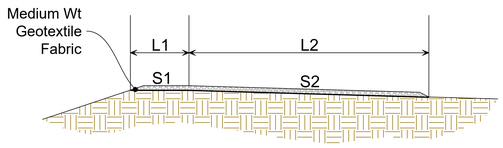
1" = 100' (22"x34" Prints)



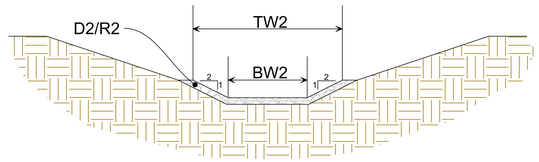
Plan View



Section B-B'

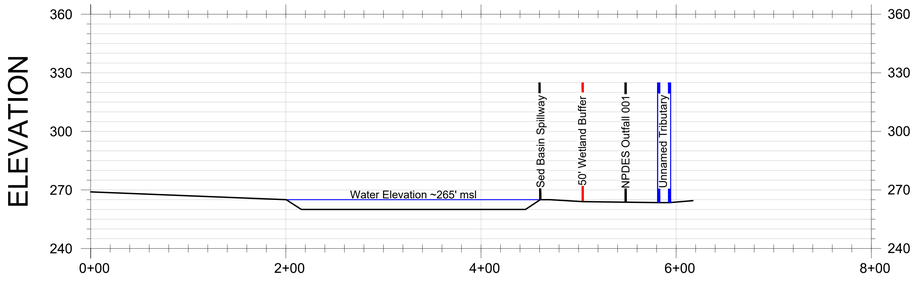


Section A-A'

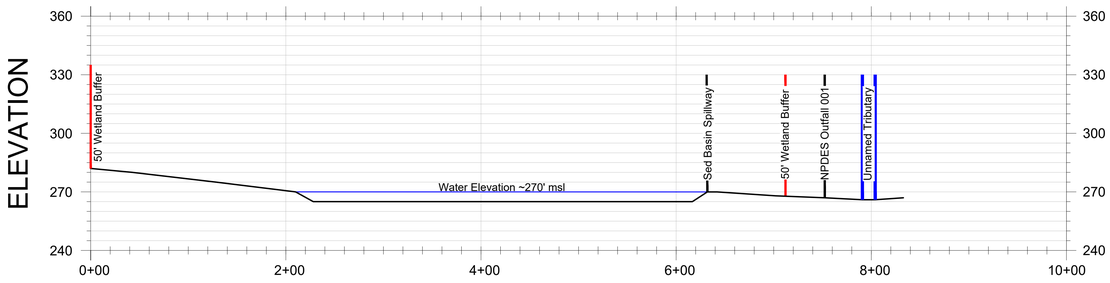


Section C-C'

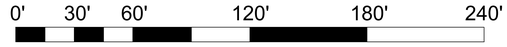
Not to Scale



SECTION A-A'
SEDIMENT BASIN 001



SECTION B-B'
SEDIMENT BASIN 002



Vertical Scale
1" = 60' (11"x17" Prints)
1" = 30' (22"x34" Prints)

Horizontal Scale
1" = 120' (11"x17" Prints)
1" = 60' (22"x34" Prints)

Sediment Basin	Spillway Weir					
	Length (ft)	Slope (%)	Top Width (ft)	Bottom Width (ft)	Rip Rap Depth (in)	Rip Rap (class)
	L1	S1	TW1	BW1	D1	R1
001	10	0	33	25	12	1
002	10	0	74	66	16	2

Sediment Basin	Spillway Channel					
	Length (ft)	Slope (%)	Top Width (ft)	Bottom Width (ft)	Rip Rap Depth (in)	Rip Rap (class)
	L2	S2	TW2	BW2	D2	R2
001	35	3	16	8	12	1
002	60	3	30	22	16	2

Construction Specifications:

1. Prior to initial excavation of the sediment basin, install silt fence or other BMPs down slope of the area to be disturbed.
2. Remove all vegetation, topsoil, and other undesirable materials from the sediment basin and spillway area.
3. Ensure that the subgrade for the placement of riprap follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material.
4. The sediment basin, spillway weir, and spillway channel must conform to the specified grading limits shown on the plans.
5. Geotextile fabric must meet design requirements and be properly protected from puncture and tears during installation. All connecting joints should overlap so the top layer is above the downstream layer at a minimum of one foot.
6. Placement of riprip shall be in a manner not to damage the underlying geotextile fabric and at the dimensions specified in the above plan.
7. Upon completion of sediment basin and spillway, stabilize all disturbed areas with the prescribed seed mixture and mulch rate identified in the PAP.

General Shale
wienerberger

PITTSVIEW MINE
SEDIMENT BASIN DESIGN
DETAILS & SECTIONS
GSBI (PLANT 65)
dba
COLUMBUS BRICK
PHENIX CITY, AL

TRS	14N-28E-1; 14N-29E-6	DWG.	65-MI-PIT-005-P1
COUNTY	RUSSELL	SHEET	5 OF 6
DRAWN	December 15, 2025	DRAWN BY	JW

Pollution Abatement & Prevention Plan

FOR

General Shale
wienerberger
dba
Columbus Brick
SINCE 1890

Pittsview Mine
NPDES Permit No.: Pending

RUSSELL COUNTY
PITTSVIEW, ALABAMA

December 2025

Certification

This Pollution Abatement and/or Prevention (PAP) Plan has been prepared based upon field observations, review of available records and discussions with plant personnel. These services have been performed in accordance with good engineering practices.

Certifying Engineer: **Stephan Wyse, P.E.**
Alabama #

Signature: _____

Engineering Seal:

Contents

FIGURES

APPENDICES

I. Introduction

This Pollution Abatement and/or Prevention (PAP) Plan has been prepared in accordance with ADEM Admin Code R. 335-6-9 for the Pittsview Mine operated by Columbus Brick. This facility is a surface mine permitted by ADEM under NPDES Permit No. ALXXXXX. The mine is located to the west of US Highway 431 near Pittsview, AL in Russell County, Alabama.

II. General Information

Name and Address of Operator:	Columbus Brick Pittsview Mine U.S. Highway 431 Pittsview, AL 36871
Contacts:	
Operator:	Brian Taylor, Production Manager (334) 480-2448
Responsible Official:	Mickey Salter, Plant Manager (334) 480-2449
Environmental Support:	David McKeown Director of Environmental Compliance (803) 691-3121 Joseph Williams, Environmental Engineer (803) 394-2128
Number of Employees at Mine Site:	One full time with up to six contract employees during mining operations and hauling season
Number of Employees at Mine Site:	7 (Intermittent during mining and hauling season)
Products to be Mined:	Alluvial Clay
Hours of Operation:	7 AM to 7 PM (Seasonal)

III. Background Information and Legal Description

The Pittsview Surface Mine is owned and operated by General Shale Brick, Inc. dba Columbus Brick. This property is located along US Highway 431 approximately 3 miles north of Pittsview, Alabama, Russell County. The property was previously used for forestry and agricultural purposes. The parcel contains 395.62 acres of land as described in the survey plat (See Appendix A). Approximately 280 of the 395.62 acres are included in the permitted mining area. The location of the proposed mining area is overlaid on a 2024 Pittsview, AL USGS Quad in Figure 1. The existing topographic conditions of the property along with the proposed mine areas are depicted on Figure 2. Key land use designations within the mine boundaries of this property (e.g. stockpiles, haul roads, mine areas and sediment basins) are shown on Figure 3.

IV. Mining Methodology

Alluvial clay is mined and stockpiled seasonably by a mining contractor. Typically, mining occurs during a one to three-month period out of every year. Conventional scrapers, excavators, off-road trucks and bulldozers are used to mine and stockpile the clay. Approximately seven personnel are employed at the site during these activities working 10-hours/day for five days/week. The stockpiled material is hauled to the Phenix City plant on an as-needed basis using tandem-axial dump trucks. One 8-hour shift is used for loading stockpiled clay for transport off-site.

The mining operations do not include any process water. All discharge associated with this mining operation result from the impoundment of stormwater runoff. Stormwater runoff is directed through sedimentation basins to remove colloidal-sized clay particles.

The haul roads are regularly maintained. All haul roads are on a less than 10 percent grade. Haul roads needed for any future mining operations will also be on a less than ten percent grade and will be constructed/located in accordance with the Best Management Practices (BMP) Plan (See Appendix B).

V. Description of Stormwater Treatment Facilities

Operations at the site include mining and stockpiling of alluvial clays. These activities cause land disturbance that result in the exposure of the disturbed soils to precipitation and stormwater runoff. Pollutants in stormwater runoff include suspended solids. The source areas for the suspended solids are undisturbed and disturbed lands, clay stockpiles, mined-out areas, and haul roads.

Stormwater runoff is routed through sedimentation basins constructed to remove suspended solids via gravitational settling. There are two permitted NPDES Outfalls (designated as 001P and 002P). Outfall 001P will be constructed in Mine Area 1 upon initial disturbance. Outfall 002 will be constructed as mining progresses westward into Mine Area 2. The sediment basins for

each outfall have supply storage capacity in excess of the required volume of 0.25 acre-ft/acre of disturbed area. The pH of the discharge from the sedimentation ponds will be between 6.0 su and 9.0 su. Mine areas, haul roads, stockpiles, sediment basins, surface flow patterns, and outfall locations are shown in Figure 4. A process flow diagram/schematic is included as Figure 6.

Prior to disturbing a new area, berms, ditches, and swales that drain to the mine sumps will be established so that non-point source discharges do not occur. All future land disturbance activities will be conducted in accordance with the facility BMP Plan (See Appendix B).

VI. System Design

The mine site is situated between Weolustee Creek, Watermelon Creek. Weolustee Creek flows from north to south along the western property boundary. Watermelon Creek flows from north to south approximately 1,000 feet east of the eastern property boundary along the opposite side of US Highway 431. (See Figures 1 and 2). Several unnamed tributaries to Weolustee Creek and Watermelon Creek also flow through the permitted area but remain outside of the projected mining limits. Although portions of the property are located within the 100 year flood plain, all mining areas are located outside of the FEMA National Flood Hazard Layer.

The current drainage control system has been designed to handle stormwater that is generated within the permitted boundary and its immediate drainage areas. The site will implement Best Management Practices (BMPs) (Appendix B) to control all non-point source runoff on their property as well as runoff into undisturbed areas. The use of the BMPs and effluent monitoring data will be evaluated by site personnel to control erosion and sediment deposition.

Stormwater that accumulates within the permit boundary is directed into sediment basins by sheet flow patterns established during mining. The drainage areas associated with each sediment basin from the respective mine areas are listed in Table 1 below.

Table 1
Mine Area Drainage Totals

Outfall	Mine Area	Size (Acres)
001P	1	19.97
	2	9.03
	Total	29
002P	2	25.14
	3	27.94
	4	10.55
	5	22.13
	Total	85.76

Proposed discharge points (001P and 002P) have open channel spillways designed to pass peak flows from a one hundred year 24-hour rain event.

VII. Pollutant Characterization

The primary pollutants at this site are very fine-grained solids (silt and clays) that are sourced from the alluvial clay mines. The proposed sediment basins will be constructed by excavating surface pits into the alluvial clays as mining progresses. As the sediment load increases it may be necessary to remove sediment deposition from the basins prior to reaching 60% of the design capacity. The sediment basins will be stabilized with vegetation and other BMPs and will remain as ponds upon final release by the Alabama Department of Labor.

VIII. Sampling and Reporting

Water samples will be collected from Outfalls 001P and 002P in accordance with the NPDES Permit. Water samples are analyzed for total suspended solids (TSS) and pH. In addition, flow measurements will be recorded at the time of sample collection.

During upset conditions, site personnel will identify the cause of the upset and then proceed with ADEM notification as required in their NPDES Permit. No flooding of the mining area is anticipated, however, any upsets that result from flooding of the mine site by adjacent waterways will be handled as follows:

1. Site personnel will notify ADEM within 24-hours of becoming aware of the upset.
2. Within 5 days of the upset, a report that identifies the conditions that were observed at the time of the upset will be submitted to the Department. These items will include rainfall information, sampling conducted, flow measurements, photographs, etc.

IX. Protection of Waterways

A streams and wetlands study was completed in December of 2025 by Moon Meeks and Associates, Inc. to identify any jusidictional areas within the proposed permitted area. In addition to the treatment system listed above, a 50-foot buffer strip will be maintained adjacent to any Waters of the State. All stormwater will be collected within the mined areas and then routed through the sediment basins prior to discharge via the permitted outfalls.

The current mine plan does not include stream crossings. If stream crossings are necessary for the development of future reserves; BMPs will be implemented and any requirements identified in the applicable Army Corp of Engineers Nationwide Permit will be satisfied.

X. Pre-Treatment Measures and Closure Plans

As mining progresses from one mine area to the next, the mine operator will reclaim any mined-out areas by seeding and mulching, using NRCS recommended seed mixes that are suitable for the soil conditions and their intended use. To minimize the amount of stormwater to be treated, reclamation of mined-out areas will be conducted concurrently with mining activities. Reclamation consists of three basic phases.

1. The first phase is to grade disturbed areas so no slope exceeds a grade of 3:1.
2. The second phase is to establish a vegetated cover. When final grading is complete, a mix of various annual and perennial grasses is planted. Table 2 lists recommended seed mixtures that have been used successfully on similar soil surfaces.
3. The third and final phase consists of maintenance of the reclaimed areas. Repairs are made as deficient areas are found.

The sediment basins will be maintained until final grass cover is established on the disturbed areas that are within the drainage area of the respective sediment basin. Upon completion of reclamation, the mine operator will apply to the ADOL to release the reclamation bond and submit an NPDES Permit Termination request to ADEM.

Table 2
Typical Planting Schedule

Seeding Material	**Application Rate**
Initial Application	
Rye Grass	15 lbs/acre
Clover	25 lbs/acre
Bermuda	25 lbs/acre
Bahia	25 lbs/acre
Agricultural Lime	2 tons/acre
Fertilizer (17-17-17)	800 lbs/acre
Additional Applications (as warranted)	
Fertilizer (13-13-13)	200 lbs/acre

XI. Spill Prevention Control and Countermeasure (SPCC) Plan

A SPCC Plan is submitted separately with this PAP plan as part of the NPDES Permit Application (See Appendix C).

XII. Stormwater Calculations

The drainage control structures associated with outfalls 001P and 002P were designed as follows. The proposed sediment basin spillway weirs were designed using the Broad-Crested Weir Formula; spillway channels were designed using Manning's Equation for trapezoidal channels; sediment basin volumes were designed using the Conic Method for Reservoir Volumes. The USDA National Soil Conservation Service WinTR-55 software was used to model 100- and 50-year 24-hour storms to estimate peak flow and storage volumes for each structure and outfall (Appendix D).

The drainage area contributing runoff to outfall 001P is shown in Figure 2. The hydrologic analysis indicated that the peak discharge from Outfall 001P during a 100 year 24-hour rainfall would be approximately 146.88 cfs, with a storage volume at peak flow of approximately 2.83 acre-feet and a pool elevation increase of approximately 1.60 feet. The peak discharge for a fifty year 24-hour rainfall event was estimated at 133.71 cfs, with a storage volume at peak flow of 2.65 acre-feet, and a pool elevation increase of approximately 1.50 feet.

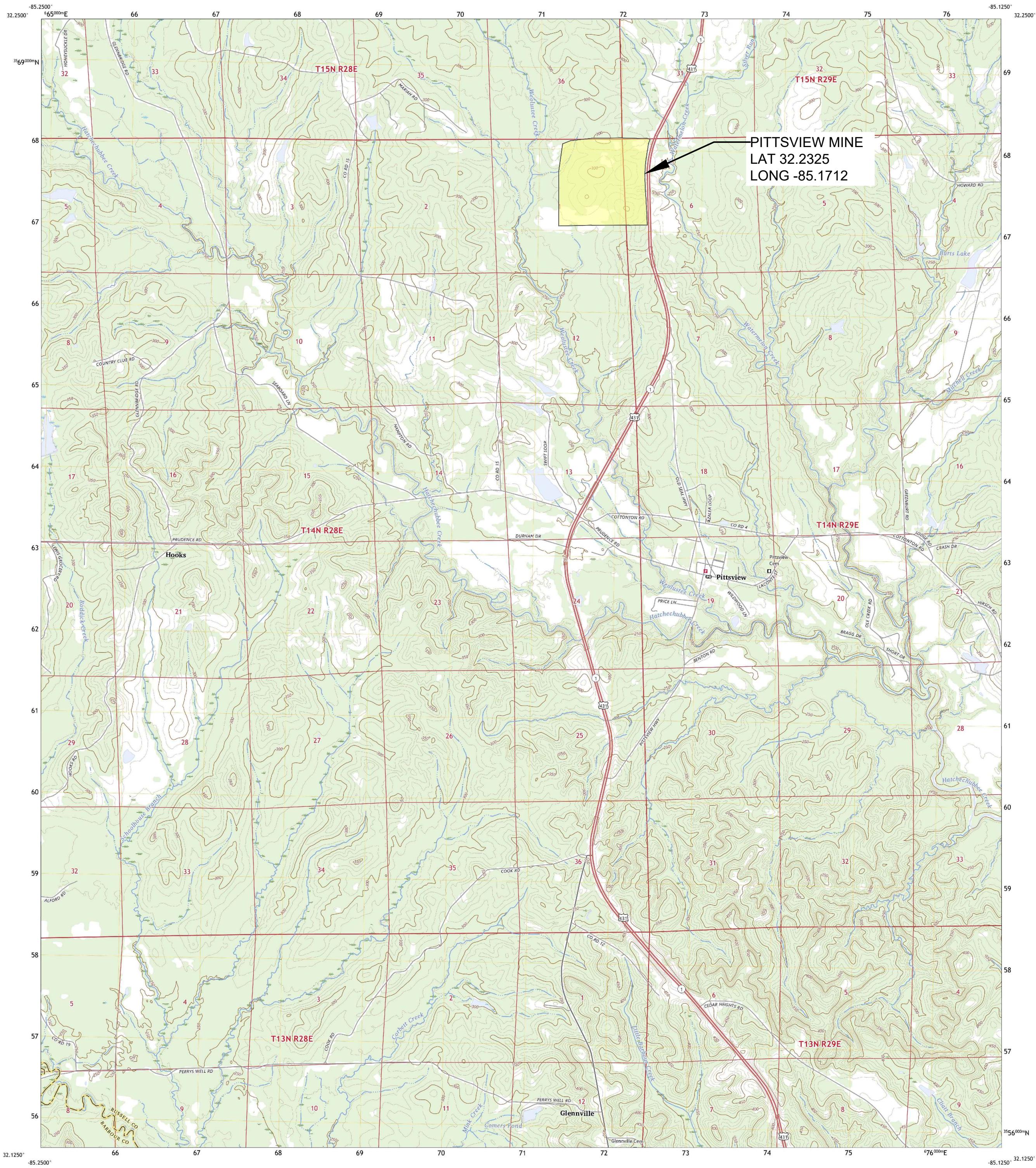
The drainage area contributing runoff to discharge point 002P is also shown in Figure 2. The peak discharge from outfall 002P resulting from a 100 year 24-hour storm was estimated to be 401.85 cfs, with a storage volume at peak flow of 8.67 acre-feet, and a pool elevation increase of approximately 1.64 feet. The peak flow from a 50 year 24-hour storm was estimated at 365.86 cfs, with a storage volume at peak flow of 8.10 acre-feet, and a pool elevation increase of approximately 1.54 feet.

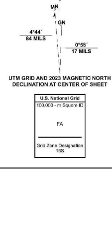
The storage capacity of the sediment basins allows adequate retention of stormwater runoff to facilitate gravitational settling of sediment prior to discharging the effluent via outfalls 001P and 002P.

FIGURES

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PITTSVIEW QUADRANGLE
ALABAMA
7.5-MINUTE SERIES





Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 16S

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery....................NAIP, September 2019 - October 2019
Roads....................U.S. Census Bureau, 2016 - 2017
Names....................GNIS, 1980 - 2023
Hydrography....................National Hydrography Dataset, 2005 - 2022
Contours....................National Elevation Dataset, 2020
Boundaries..............Multiple sources; see metadata file 2021 - 2022
Public Land Survey System....................BLM, 2020
Wetlands....................FWS National Wetlands Inventory 1981 - 1981

4°44′ 84 MILS
0°58′ 17 MILS
UTM GRID AND 2023 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
FA
Grid Zone Designation 16S

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Hatchechubbee
2 Seale
3 Fort Mitchell
4 Rutherford
5 Omaha
6 Batesville
7 Howe
8 Twin Springs

ROAD CLASSIFICATION
Expressway, Secondary Hwy, Ramp, Local Connector, Local Road, 4WD, Interstate Route, US Route, State Route

PITTSVIEW, AL
2024

NSN. 7643016352509
NGA REF NO. USGSX24K71252

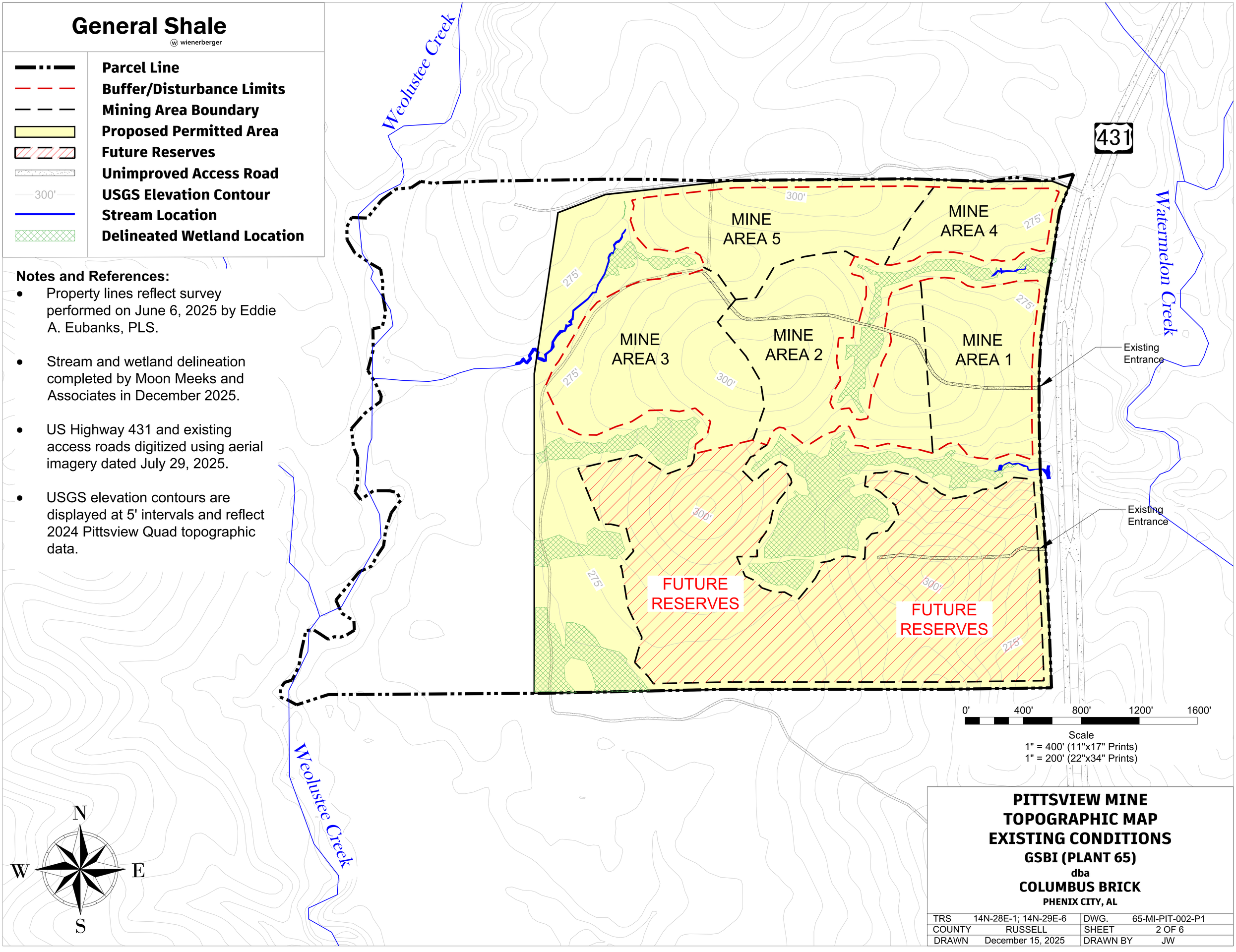
General Shale

wienerberger

- Parcel Line
- Buffer/Disturbance Limits
- Mining Area Boundary
- Proposed Permitted Area
- Future Reserves
- Unimproved Access Road
- 300' USGS Elevation Contour
- Stream Location
- Delineated Wetland Location

Notes and References:

- Property lines reflect survey performed on June 6, 2025 by Eddie A. Eubanks, PLS.
- Stream and wetland delineation completed by Moon Meeks and Associates in December 2025.
- US Highway 431 and existing access roads digitized using aerial imagery dated July 29, 2025.
- USGS elevation contours are displayed at 5' intervals and reflect 2024 Pittsview Quad topographic data.



Scale
1" = 400' (11"x17" Prints)
1" = 200' (22"x34" Prints)

PITTSVIEW MINE
TOPOGRAPHIC MAP
EXISTING CONDITIONS

GSBI (PLANT 65)
dba
COLUMBUS BRICK
PHENIX CITY, AL

TRS	14N-28E-1; 14N-29E-6	DWG.	65-MI-PIT-002-P1
COUNTY	RUSSELL	SHEET	2 OF 6
DRAWN	December 15, 2025	DRAWN BY	JW

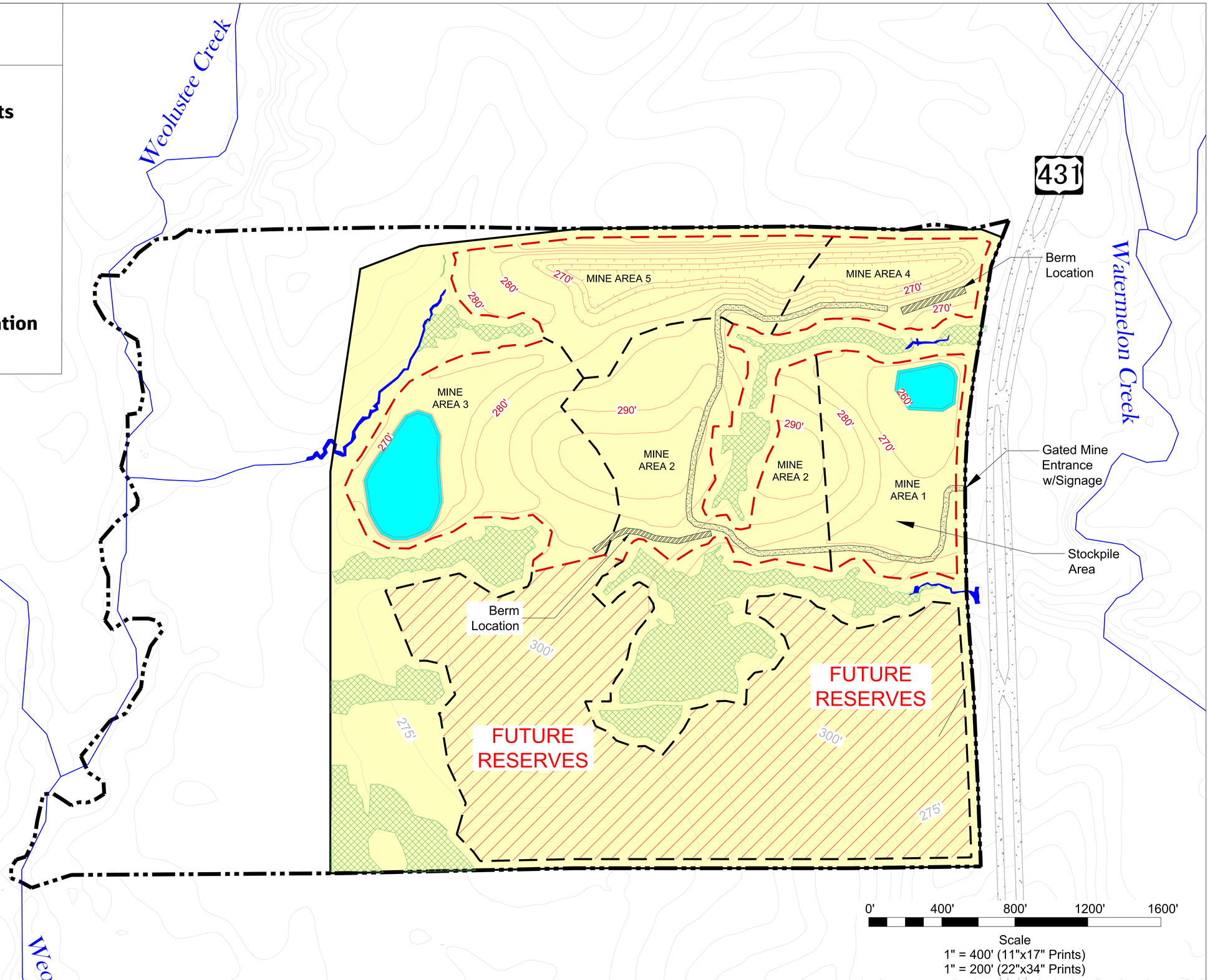
General Shale

wienerberger

- Parcel Line
- Buffer/Disturbance Limits
- Mining Area Boundary
- Permitted Area
- Future Reserves
- Haul Road
- 290' USGS Elevation Contour
- 300' Final Mining Contour
- Stream Location
- Delineated Wetland Location
- Sediment Basin

Notes and References:

- Property lines reflect survey performed on June 6, 2025 by Eddie A. Eubanks, PLS.
- Stream and wetland delineation completed by Moon Meeks and Associates in December 2025.
- US Highway 431 and existing access roads digitized using aerial imagery dated July 29, 2025.
- USGS elevation contours are displayed at 5' intervals and reflect 2024 Pittsview Quad topographic data.
- Projected final mining elevation contours derived from 2025 prospecting data.



Scale
1" = 400' (11"x17" Prints)
1" = 200' (22"x34" Prints)

N W E S

PITTSVIEW MINE
DETAILED FACILITY MAP
MINE PLAN
GSBI (PLANT 65)
dba
COLUMBUS BRICK
PHENIX CITY, AL

TRS	14N-28E-1; 14N-29E-6	DWG.	65-MI-PIT-003-P1
COUNTY	RUSSELL	SHEET	3 OF 6
DRAWN	December 15, 2025	DRAWN BY	JW

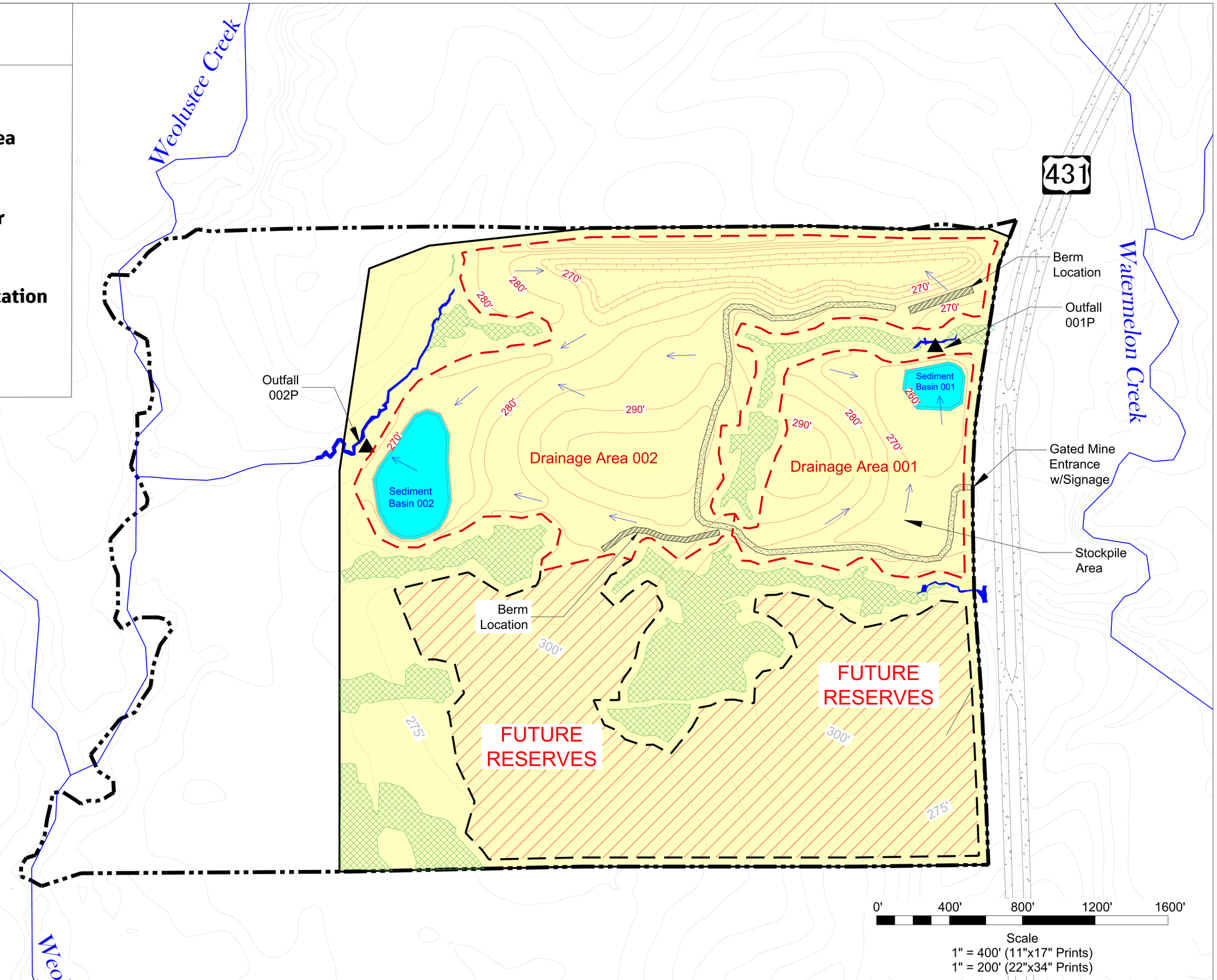
General Shale

wienerberger

- Parcel Line
- Buffer/Drainage Area
- Proposed Permitted Area
- Future Reserves
- Haul Road
- USGS Elevation Contour
- Final Mining Contour
- Stream Location
- Delineated Wetland Location
- Sediment Basin
- Surface Flow Direction
- NPDES Outfall

Notes and References:

- Property lines reflect survey performed on June 6, 2025 by Eddie A. Eubanks, PLS.
- Stream and wetland delineation completed by Moon Meeks and Associates in December 2025.
- US Highway 431 and existing access roads digitized using aerial imagery dated July 29, 2025.
- USGS elevation contours are displayed at 5' intervals and reflect 2024 Pittsview Quad topographic data.
- Projected final mining elevation contours derived from 2025 prospecting data.



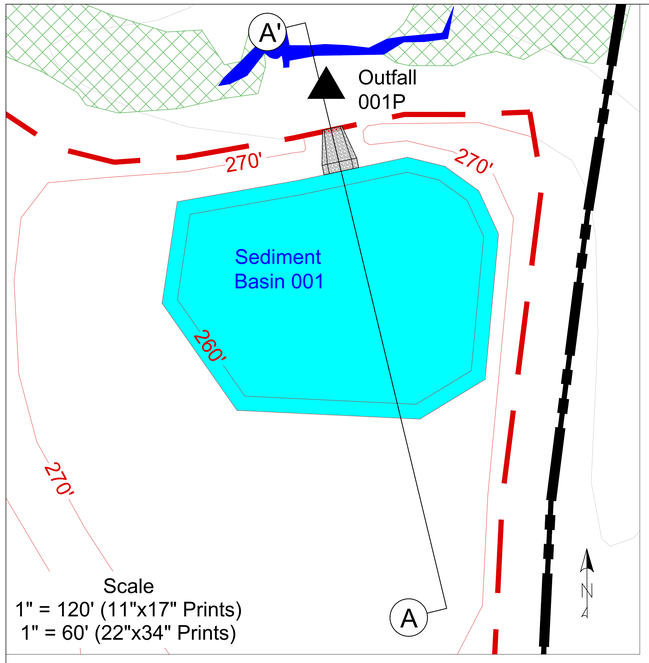
0' 400' 800' 1200' 1600'

Scale
1" = 400' (11"x17" Prints)
1" = 200' (22"x34" Prints)

N W E S

PITTSVIEW MINE
DETAILED FACILITY MAP
DRAINAGE CONTROL PLAN
GSBI (PLANT 65)
dba
COLUMBUS BRICK
PHENIX CITY, AL

TRS	14N-28E-1; 14N-29E-6	DWG.	65-MI-PIT-004-P1
COUNTY	RUSSELL	SHEET	4 OF 6
DRAWN	December 15, 2025	DRAWN BY	JW



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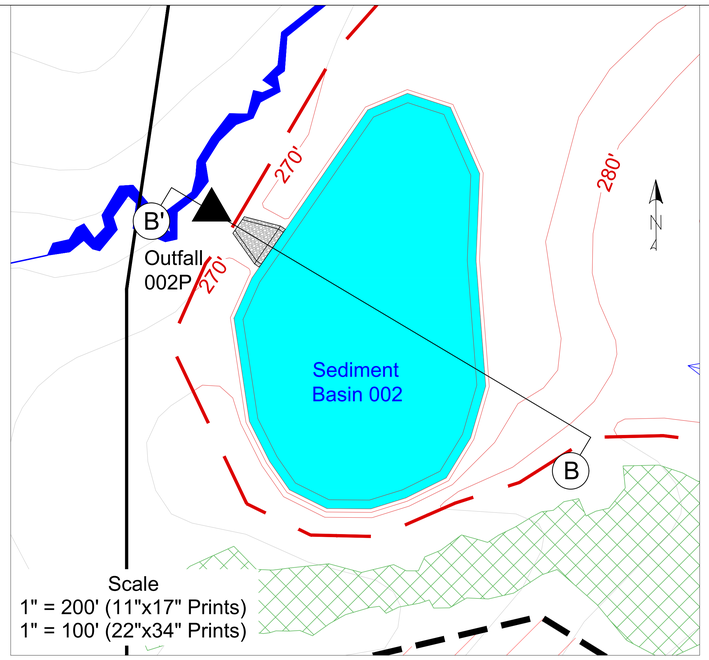

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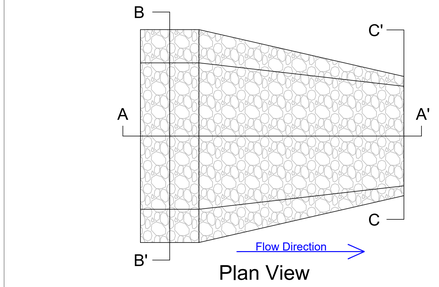
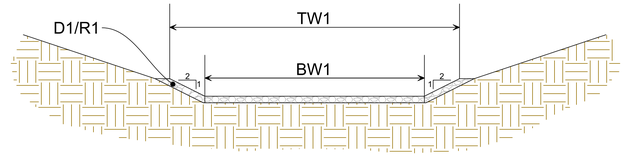
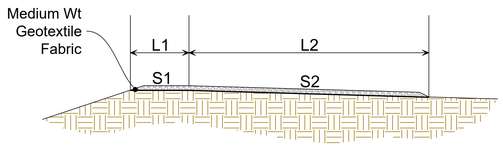


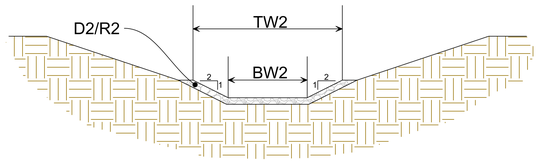
Plan View



Section B-B'

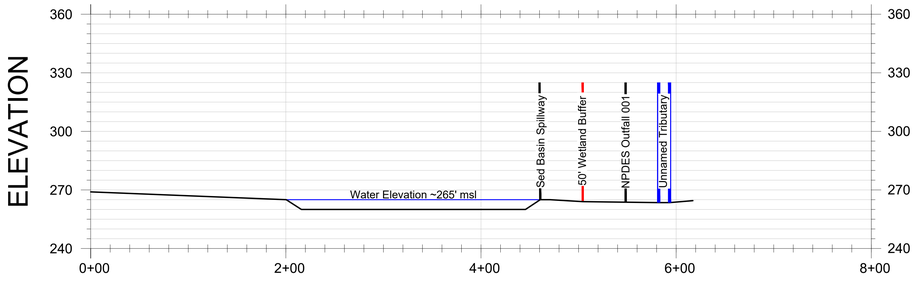


Section A-A'

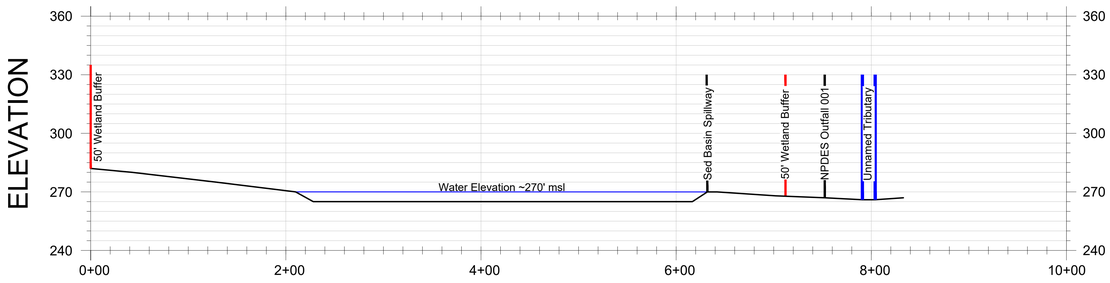


Section C-C'

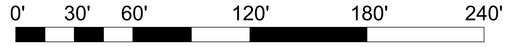
Not to Scale



SECTION A-A'
SEDIMENT BASIN 001



SECTION B-B'
SEDIMENT BASIN 002



Vertical Scale
1" = 60' (11"x17" Prints)
1" = 30' (22"x34" Prints)

Horizontal Scale
1" = 120' (11"x17" Prints)
1" = 60' (22"x34" Prints)

Sediment Basin	Spillway Weir					
	Length (ft)	Slope (%)	Top Width (ft)	Bottom Width (ft)	Rip Rap Depth (in)	Rip Rap (class)
	L1	S1	TW1	BW1	D1	R1
001	10	0	33	25	12	1
002	10	0	74	66	16	2

Sediment Basin	Spillway Channel					
	Length (ft)	Slope (%)	Top Width (ft)	Bottom Width (ft)	Rip Rap Depth (in)	Rip Rap (class)
	L2	S2	TW2	BW2	D2	R2
001	35	3	16	8	12	1
002	60	3	30	22	16	2

Construction Specifications:

1. Prior to initial excavation of the sediment basin, install silt fence or other BMPs down slope of the area to be disturbed.
2. Remove all vegetation, topsoil, and other undesirable materials from the sediment basin and spillway area.
3. Ensure that the subgrade for the placement of riprap follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material.
4. The sediment basin, spillway weir, and spillway channel must conform to the specified grading limits shown on the plans.
5. Geotextile fabric must meet design requirements and be properly protected from puncture and tears during installation. All connecting joints should overlap so the top layer is above the downstream layer at a minimum of one foot.
6. Placement of riprip shall be in a manner not to damage the underlying geotextile fabric and at the dimensions specified in the above plan.
7. Upon completion of sediment basin and spillway, stabilize all disturbed areas with the prescribed seed mixture and mulch rate identified in the PAP.

General Shale
wienerberger

PITTSVIEW MINE
SEDIMENT BASIN DESIGN
DETAILS & SECTIONS
GSBI (PLANT 65)
dba
COLUMBUS BRICK
PHENIX CITY, AL

TRS	14N-28E-1; 14N-29E-6	DWG.	65-MI-PIT-005-P1
COUNTY	RUSSELL	SHEET	5 OF 6
DRAWN	December 15, 2025	DRAWN BY	JW

001P

General Shale

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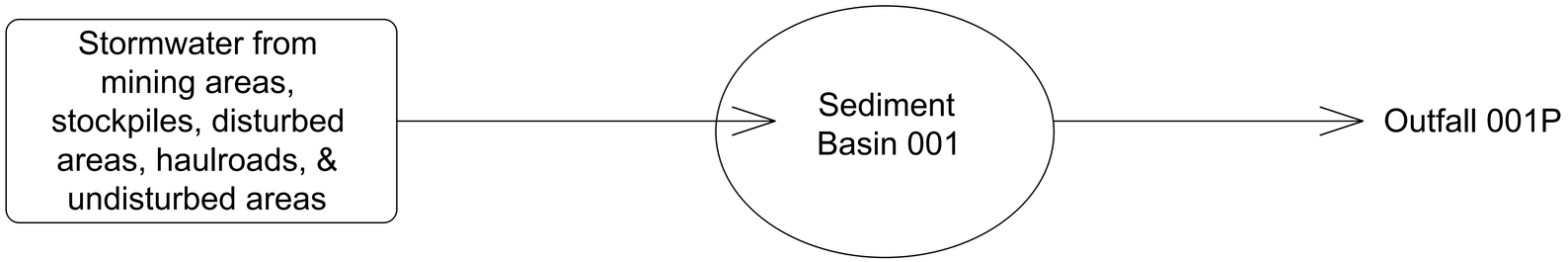
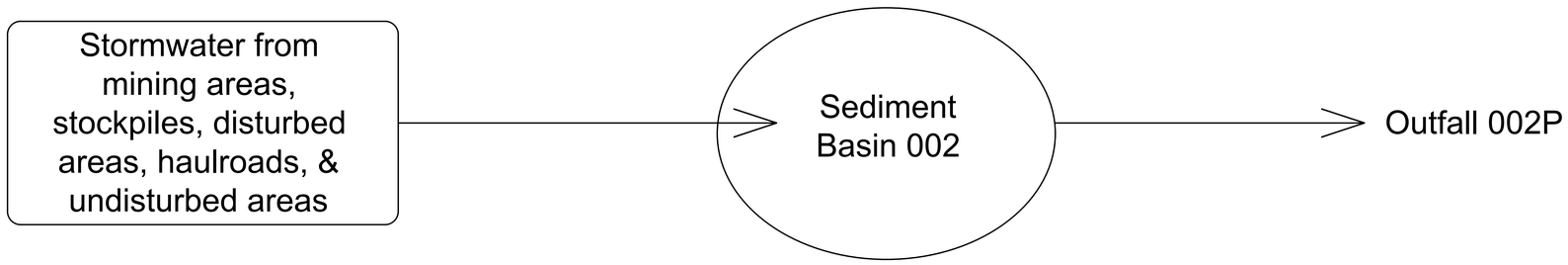


002P



PITTSVIEW MINE
FACILITY SCHEMATICS
PROCESS FLOW DIAGRAM
GSBI (PLANT 65)
dba
COLUMBUS BRICK
PHENIX CITY, AL

TRS	14N-28E-1; 14N-29E-6	DWG.	65-MI-PIT-006-P1
COUNTY	RUSSELL	SHEET	6 OF 6
DRAWN	December 15, 2025	DRAWN BY	JW

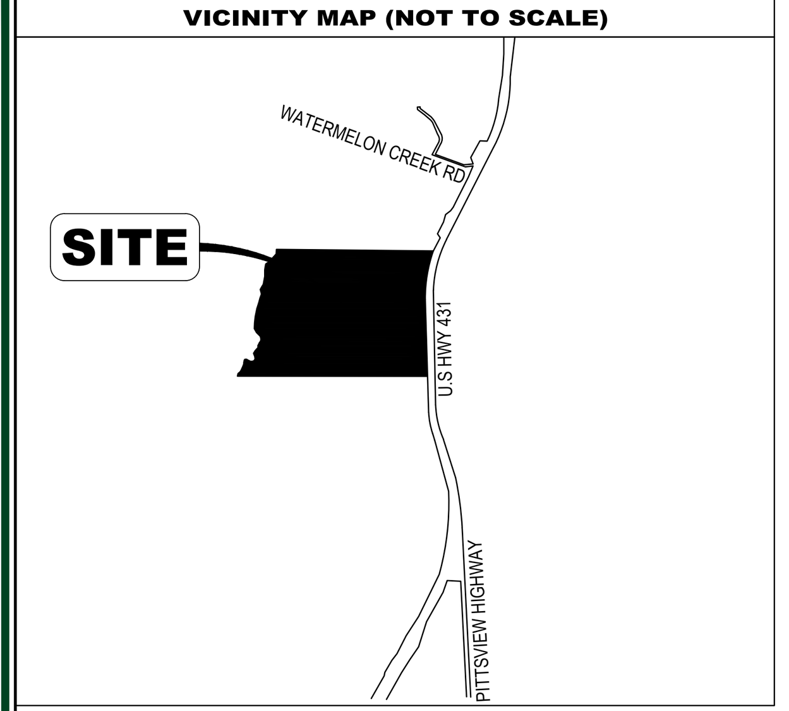
APPENDICES

APPENDIX A

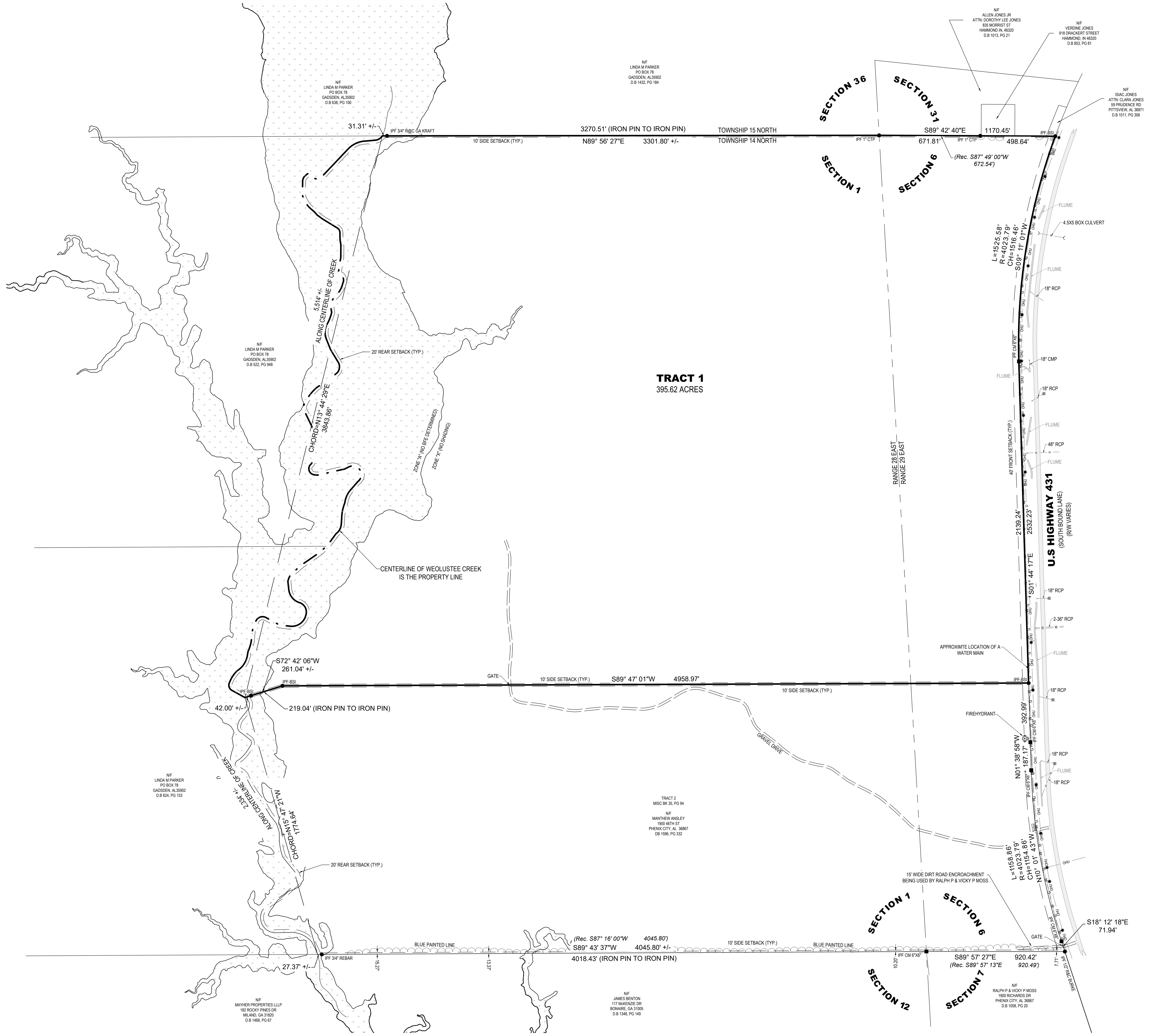
Legal Property Descriptions

PLAT OF BOUNDARY FOR
GENERAL SHALE BRICK, INC.
LOCATED IN SECTION 1, TOWNSHIP 14 NORTH, RANGE 28 EAST & SECTION 6, TOWNSHIP 14 NORTH, RANGE 29 EAST
RUSSELL COUNTY, ALABAMA

VICINITY MAP (NOT TO SCALE)



SURVEY NORTH IS BASED ON ALABAMA EAST STATE PLANE COORDINATES BY GPS OBSERVATION:NAD83



RECORDING INFORMATION

THIS AREA RESERVED FOR THE OFFICE OF THE JUDGE OF PROBATE FOR RECORDING INFORMATION ONLY

CERTIFICATES

CERTIFICATE OF APPROVAL BY THE RUSSELL COUNTY ENGINEER

APPROVED FOR RECORDING ONLY BY THE RUSSELL COUNTY ENGINEER, THIS _______ DAY OF ______________________, 20________

____
RUSSELL COUNTY ENGINEER

SURVEYOR'S NOTES

1. THE PURPOSE OF THIS PLAT IS TO SHOW PROPERTY CORNERS AS FOUND OR RE-ESTABLISHED WITHIN THE SCOPE OF THIS SURVEY.

2. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF AN ATTORNEY'S TITLE OPINION, TITLE POLICY OR TITLE COMMITMENT. THE SURVEYOR'S SEARCH OF PUBLIC RECORDS WAS LIMITED TO THOSE MATTERS AFFECTING THE BOUNDARIES OF THE SUBJECT PROPERTY ONLY. THERE MAY BE MATTERS OF RECORD, SUCH AS CONVEYANCES, EASEMENTS, RIGHTS OF WAY, ETC., THAT MAY AFFECT THE TITLE TO THE SUBJECT PROPERTY WHICH WERE NOT DISCLOSED TO OR KNOWN BY BSI ENGINEERING SURVEYING, INC. AT THE TIME OF THIS SURVEY. (*REFERENCE: THE COMMITMENT FOR TITLE INSURANCE ISSUED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, COMMITMENT NO: 20251550CAL, EFFECTIVE DATE: MAY 15, 2025, AT 08:00 AM)

3. BASIS FOR SURVEY (PLATS / DEEDS OF REFERENCE):
(A) DEED BOOK 1596, PAGE 332, RECORDED IN THE OFFICE OF THE JUDGE OF PROBATE OF RUSSELL COUNTY, ALABAMA.
(B) PLAT OF PROPERTY DIVISION FOR STEVEN W. CORBETT, PER MISC BOOK 35, PAGE 94, RECORDED IN THE OFFICE OF THE JUDGE OF PROBATE OF RUSSELL COUNTY, ALABAMA.
(C)DEED BOOK 1550, PAGE 1, RECORDED IN THE OFFICE OF THE JUDGE OF PROBATE OF RUSSELL COUNTY, ALABAMA.
(D) PLAT OF BOUNDARY SURVEY FOR MARY LINDA PARKER PREPARED BY McPHERSON ENGINEERING COMPANY, DATED AUGUST 1983.DRAWING NUMBER C-524.
(E) PLAT OF BOUNDARY SURVEY FOR GEORGIA KRAFT COMPANY, WOODLANDS DIVISION, DATED MARCH 27, 1984 PREPARED BY McPHERSON ENGINEERING COMPANY, DATED AUGUST 1983. DRAWING NUMBER C-530.
(F) PLAT OF BOUNDARY SURVEY FOR GEORGIA KRAFT COMPANY, WOODLANDS DIVISION, DATED SEPTEMBER 26, 1984 PREPARED BY McPHERSON ENGINEERING COMPANY, DATED AUGUST 1983.DRAWING NUMBER C-578.
(G) PLAT OF BOUNDARY SURVEY FOR GEORGIA KRAFT COMPANY, WOODLANDS DIVISION, DATED SEPTEMBER 26, 1984 PREPARED BY McPHERSON ENGINEERING COMPANY, DATED AUGUST 1983.DRAWING NUMBER C-579.
(H) AL DOT-PLANS OF PROPOSED PROJECT NUMBER NHF-0001(518)
(I) AL DOT-PLANS OF PROPOSED PROJECT NUMBER NHF-0001(512)
(J) DEED BOOK 1058, PAGE 20, RECORDED IN THE OFFICE OF THE JUDGE OF PROBATE OF RUSSELL COUNTY, ALABAMA.
(K) BOUNDARY LINE AGREEMENT RECORDED IN BOOK 576, PAGE 391, IN THE OFFICE OF THE JUDGE OF PROBATE OF RUSSELL COUNTY, ALABAMA

4. SITE LOCATION:
A PORTION OF TAX PARCEL ID #'s: 22-01-01-0-000-001.002, 21-03-06-0-000-002.000, 1-03-06-0-000-001.001 & 22-01-01-0-000-002.000, PER THE RUSSELL CO., ALABAMA GIS TAX MAPS.

5. ZONING INFORMATION:
THE SUBJECT PROPERTY IS OUTSIDE ANY CITY LIMITS AND IS NOT ZONED.
BUILDING SETBACKS:
FRONT: 40', SIDE: 10', REAR: 20'

6. FLOOD NOTE:
ACCORDING TO THE FLOOD INSURANCE RATE MAPS (FIRM) OF RUSSELL COUNTY, ALABAMA, MAP NUMBER 01113CO400C, EFFECTIVE DATE 7/22/2010, THE PROPERTY SHOWN HEREON IS IN THE FOLLOWING ZONES:
ZONE "X" (NO SHADING) (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN).
7ONE "A" (NO BASE FLOOD ELEVATION DETERMINED) LIMITS OF ZONE "A" SHOWN HEREON IS APPROXIMATE, TAKEN FROM CURRENT FEMA MAPS AND NOT FIELD LOCATED WITHIN THE SCOPE OF THIS SURVEY.

7. IMPROVEMENTS SHOWN WERE LOCATED WITHIN THE SCOPE OF THIS SURVEY.

8. NO ENCROACHMENTS WERE OBSERVED WITHIN THE SCOPE OF THIS SURVEY.

9. THERE WAS NO ATTEMPT IN THE FIELD TO DETERMINE THE LOCATION AND / OR THE EXTENT OF POSSIBLE ENCROACHMENTS BENEATH THE SURFACE.

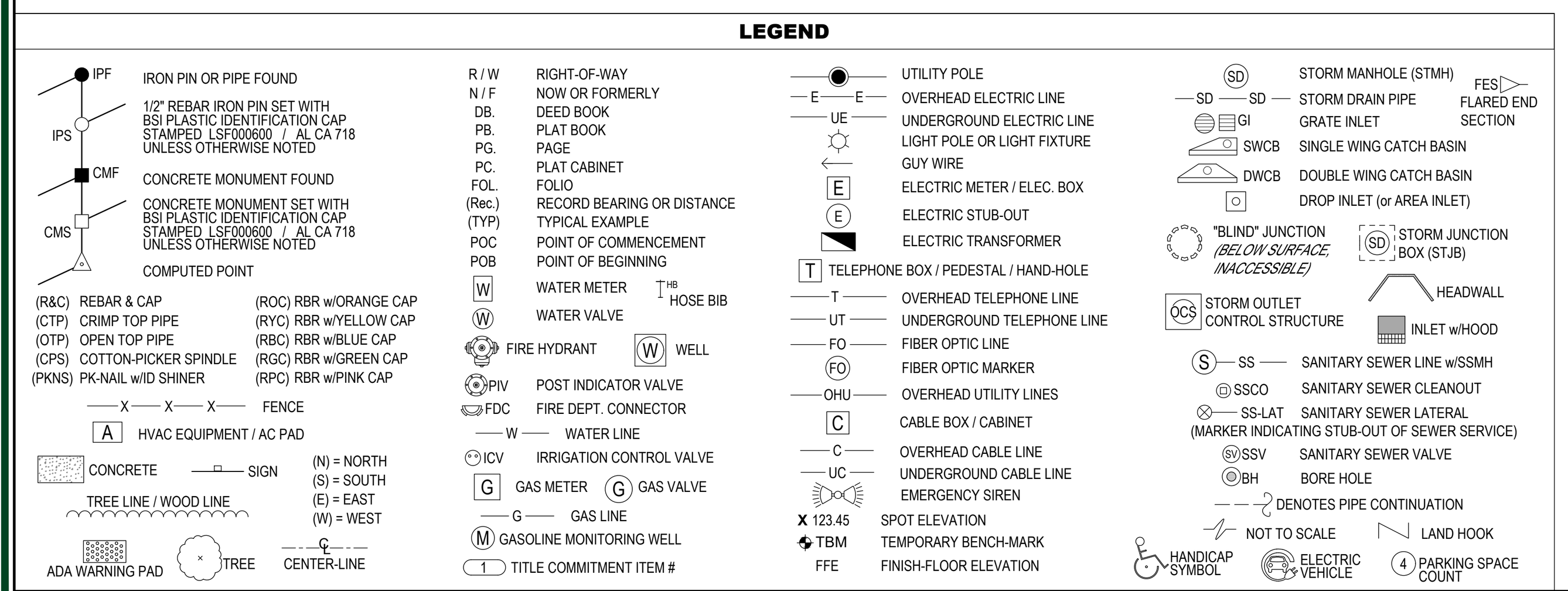
10. UTILITIES SHOWN ON THIS PLAT ARE BASED ON OBSERVED EVIDENCE BY BSI ENGINEERING SURVEYING, INC. PERSONNEL, AT THE TIME OF THE SURVEY. ALL UNDERGROUND UTILITIES, DIRECTIONS, SIZES AND TYPES (IF APPLICABLE), ARE BASED ON OBSERVATIONS IN THE FIELD; SOME LOCATIONS OF UNDERGROUND UTILITIES ARE BASED ON LOCATIONS MARKED AND PROVIDED BY UTILITY COMPANIES AND/OR CONTRACT UNDERGROUND LOCATORS AND SHOULD BE CONSIDERED APPROXIMATE. NO CERTIFICATION IS MADE AS TO THE ACCURACY OR THOROUGHNESS OF THIS INFORMATION CONCERNING UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON BY BSI ENGINEERING SURVEYING, INC.

11. THIS DRAWING MAY NOT BE ALTERED OR ADDED TO WITHOUT PERMISSION FROM BSI ENGINEERING SURVEYING, INC. THIS DRAWING BECOMES VOID IF ANY ALTERATIONS OR CHANGES ARE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF BSI ENGINEERING SURVEYING, INC.

12. THIS PLAT IS NOT TO BE CONSIDERED A CERTIFIED DOCUMENT UNLESS IT BEARS THE PROPER SEAL AND SIGNATURE OF A REGISTERED PROFESSIONAL.

13. PLAT CLOSURE:
THIS MAP OR PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 68,372 FEET.

LEGEND



SURVEYOR'S INFO
EDDIE A. EUBANKS, PLS
*ALABAMA REG. NO. 24328
*GEORGIA REG. NO. 3040
BSI ENGINEERING SURVEYING, INC.
121 W. BROAD STREET
EUFAULA, AL 36027
334-687-4257 (O)
334-381-0173 (C)
EAEUBANKS@BSIES.COM
*BSI ALABAMA LSCA718
*BSI GEORGIA LSF000600

BSI ENGINEERING | SURVEYING
121 W. BROAD STREET, EUFAULA, AL 36027
334-687-4257 | www.bsies.com

SCALE IN FEET: 0 200 400 800 1200 1600

ALABAMA LICENSED No. 24328 PROFESSIONAL LAND SURVEYOR EDDIE A. EUBANKS
6/9/2025

SURVEYOR'S CERTIFICATE

CERTIFIED TO: GENERAL SHALE BRICK, INC., A DELAWARE CORPORATION AND FIDELITY NATIONAL TITLE INSURANCE COMPANY

I HEREBY CERTIFY THAT ALL PARTS OF THIS MAP OF SURVEY HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF.

______________________________ DATE 6/9/2025
EDDIE A. EUBANKS, ALABAMA PLS NO. 24328

BSI CLIENT:
GENERAL SHALE BRICK, INC.
C/O PENNSTUART
PO BOX 4210
JOHNSON CITY, TENNESSEE 37602
RICK J. BEARFIELD, ESQ.
423-516-7027
RJBEARFIELD@PENNSTUART.COM

REVISION DATE	DESCRIPTION
1) .	.
2) .	.
3) .	.
4) .	.
5) .	.

PROJECT NO: 24-0257.B
DRAWING DATE: 6/4/2025
DRAWN BY: BPB/TLS
SCALE: 1"=400'
FIELD DATE: 5/22/2025
FIELD BY: ML/WD/MP

APPENDIX B

Best Management Practices (BMP) Plan

Best Management Practices Plan

FOR

General Shale
wienerberger
dba
Columbus Brick
SINCE 1890

Pittsview Mine
NPDES Permit No.: Pending

RUSSELL COUNTY
PITTSVIEW, ALABAMA

December 2025

Contents

Contents *(Continued)*

APPENDICES

About This Plan

This Best Management Practices (BMP) Plan was prepared to help this facility comply with the National Pollutant Discharge Elimination System (NPDES) Permit issued by the Alabama Department of Environmental Management. The permit requires the operator to develop, implement and maintain a BMP plan to reduce or eliminate pollutants in stormwater runoff at The Pittsview Mine.

Things, which must be completed, are in bold and italics below:

Some key issues to remember when reviewing this Plan.

1. ***The Regional Manager must certify the Plan by signing the statement on page vi.***

2. ***The Team Leader (or Plant Manager in this case) should complete and the Regional Manager must review and sign Worksheet 3*** (Non-Stormwater Discharge Assessment and Certification). The certification must be completed as accurately as possible.

3. ***Note that the permit requires the daily log in Section 7 to be maintained for petroleum storage areas, stormwater releases from containment units, and a bi-weekly inspection of stormwater systems. These are provided in Section 7.1. An annual certification is required to verify they are being performed and is due by January 28th of each year.*** If not performed and ADEM inspects, you will likely be subject to additional requirements, including quarterly sampling.

4. Note in Section 11, ***you are required to perform Monthly (when the washdown system is used and there is a discharge during the month) and Semi-Annual Sampling and reporting***. Results are also required to ***be submitted semiannually (By January 28th and July 28th*** for the semi-annual time period preceding those dates).

5. Section 8.0 of this Plan describes the ***Comprehensive Site Compliance Evaluation*** (Worksheet 7) that must be completed each year. This is an annual requirement and the section explains the requirements for follow-up.

6. The permit specifies that completed Worksheets automatically become a part of your Plan and must be kept for 3 years from the date of the action (inspection, sample, etc.) or for one year after the expiration of the permit (take whichever is longer for ease of recordkeeping).

Distribution List

Copy	Person	Location
1	Mickey Salter Plant Manager	Columbus Brick Phenix City, AL
2	David McKeown Director Environmental Compliance	Corporate Environmental Columbia, SC

Document Control and Revision History

Revision Date:	Revision By:	Types of Revisions:

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 gathered and evaluated the submitted information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the submitted information 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 fines and imprisonment for knowing violations.

Signature:

Name: **Stephan Wyse, PE**

Title: Environmental Engineer

Date: _____

Signature: _____

Name: **Mickey Salter**

Title: Plant Manager

Certification Date: _____

Pollution Prevention Team

Name: **Brian Taylor**
Title: Production Manager
Phone: (334) 480-2448

Responsibilities: The Production Manager is responsible for stormwater pollution prevention at the Pittsview Mine. His role as leader of the Pollution Prevention Team includes the following responsibilities.

1. Evaluating and initiating updating the BMP as required.

2. Ensuring the quarterly inspections of the facility are performed and conducting the annual comprehensive evaluations.

3. Ensuring that stormwater pollution prevention is included in employee training classes.

4. Assisting as warranted in spill and leak cleanup.

5. Working with the facility personnel to aid in implementation of the BMPs and identify facility and procedural changes identified to minimize pollutant exposure to stormwater.

Name: **Mickey Salter**
Title: Plant Manager
Phone: (334) 480-2449

Responsibilities: The Plant Manager is the responsible corporate official for the facility. He is responsible for supporting the Production Manager's work by providing adequate resources to complete the activities and programs identified in the BMP. The Plant Manager is also required to sign legal certifications as identified in the BMP.

Section 1
Site Description and Drainage Features

The Pittsview Surface Mine is owned and operated by General Shale Brick, Inc. dba Columbus Brick. This property is located along US Highway 431 approximately 3 miles north of Pittsview, Alabama, Russell County. The property was previously used for forestry and agricultural purposes. The parcel contains 395.62 acres of land. Approximately 280 of the 395.62 acres are included in the permitted mining area.

The mine site is situated between Weolustee Creek, Watermelon Creek. Weolustee Creek flows from north to south along the western property boundary. Watermelon Creek flows from north to south approximately 1,000 feet east of the eastern property boundary along the opposite side of US Highway 431. Several unnamed tributaries to Weolustee Creek and Watermelon Creek also flow through the permitted area but remain outside of the projected mining limits. Although portions of the property are located within the 100-year flood plain, all mining areas are located outside of the FEMA National Flood Hazard Layer.

Alluvial clay is mined and stockpiled seasonably by a mining contractor. Typically, mining occurs during a one to three-month period out of every year. Conventional scrapers, excavators, off-road trucks and bulldozers are used to mine and stockpile the clay. Approximately seven personnel are employed at the site during these activities working 10-hours/day for five days/week. The stockpiled material is hauled to the Phenix City plant on an as-needed basis using tandem-axial dump trucks. One 8-hour shift is used for loading stockpiled clay for transport off-site.

Stormwater runoff is routed through sedimentation basins constructed to remove suspended solids via gravitational settling. There are two permitted NPDES Outfalls (designated as 001P and 002P). Outfall 001P will be constructed in Mine Area 1 upon initial disturbance. Outfall 002 will be constructed as mining progresses westward into Mine Area 2. The sediment basins for each outfall have supply storage capacity in excess of the required volume of 0.25 acre-ft/acre of disturbed area. The pH of the discharge from the sedimentation ponds will be between 6.0 su and 9.0 su. Prior to disturbing a new area, berms, ditches, and swales that drain to the mine sumps will be established so that non-point source discharges do not occur.

Section 2
Inventory of Exposed Materials

Worksheet 1 contains a detailed inventory of significant materials used, stored, or produced onsite that are exposed to stormwater. Note that bricks themselves are not noted as they are not a significant source of stormwater pollutants. The locations of these potential pollutant sources have been identified on the facility diagram included in Appendix A.

Worksheet 1
Significant Materials Exposed to Stormwater

Significant Material[1,2,3]	Purpose[4]	Method of Storage	Control Measures and Management Procedures Employed	Likelihood of Significant Contact with Stormwater	Past Significant Spill or Leak[5]
Clay and other similar materials	Raw material	Stockpiles	The majority of the material is stored under cover or indoors. Material is mined and brought onsite as needed to avoid excess stockpiles. Contact is minimized by covers and handling practices; and runoff is through controlled ditching and a sediment pond.	High. Due to nature of material, dust is generated and some material is exposed at all times.	No
Diesel fuel	Mine Equipment fueling	Aboveground tanks	Mining is conducted seasonally on a contract basis. Mining contractors will fuel their equipment with mobile equipment or with a fixed tank that is brought on site for the mining period. All fueled storage/fueling/handling by mining contractors will be conducted in accordance with the SPCC Plan.	Minimal except for minor spills during fueling/refueling activities which are handled in a timely fashion.	No

[1] These are the significant materials, which have been handled or stored in a manner to allow exposure to precipitation. None of the materials has been treated (other than use in the manufacturing process) or disposed onsite.

[2] The treatment of stormwater presently employed is the use of sedimentation systems and oil/water separators at refueling and wash-down areas. No other treatment processes are employed.

[3] Other materials exposed are not considered significant due to the limited quantity or the inert nature of the material.

[4] See the Facility Diagram for locations.

[5] Considered to be significant if could, or would, affect stormwater and was a result of a sudden, unanticipated action.

Section 3
Significant Spills and Leaks

There have been no significant spills or leaks that have affected stormwater at this facility.

Worksheet 2 is provided to record any significant releases in the future.

Worksheet 2

List of Significant Spills and Leaks

Directions: Record below all significant spills and leaks of toxic or hazardous pollutants.

Definitions: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

Date (m/d/y)	Check One or Both		Location (as indicated on site map)	Description				Response Procedure		Preventive Measures Taken	Completed by (Initials/ Date)
	Spill	Leak		Type of Material	Quantity (Estimate)	Source	Reason	Amount of Material Recovered	Is Material Still Exposed to Stormwater? (Yes or No)		

Section 4
Non-Stormwater Discharges

There are no known unauthorized non-stormwater discharges from this facility.

Section 5
Sampling Data

No sampling has commenced. Analytical data will be added as it is acquired.

Section 6
Risk Identification and Summary of Potential Pollutant Sources

In general, the production activities at this site suggest potential problems with erosion, as would be indicated by high total suspended solids (TSS) levels. This Plan therefore focuses primarily on reducing erosion and raw materials transport, particularly around outdoor storage and handling areas. Table 1 is a summary of the potential pollutant sources and applicable pollutant indicators for the facility.

The following areas and activities (noted on the Facility Diagram in Appendix A) may act as potential stormwater pollution sources:

- Loading and Unloading Operations. At the mine the loading/unloading areas of concern are for fuels. Raw materials include clay and shale which are in such significant volumes they have the potential to significantly affect stormwater quality if not properly managed. Fuels are managed as described in the SPCC Plan (please refer to it for additional information). Unloading of clay occurs in a covered area, but dust generation may result in some carryout from the covered area.

- Outdoor Storage. Outdoor storage is limited where possible as moisture is not desirable in the raw materials for production. However, due to the sheer volume of the material utilized, outdoor storage (or covered storage which includes a portion not always under cover) includes some clay, shale, and sand. In addition, the final products, bricks, are stored outside but are inert and relatively dust free compared to the raw materials and not a significant source of stormwater pollutants. While oils and fuels are stored outdoors, large quantities are in secondary containment where accumulated stormwater is checked for potential contamination prior to release.

- Outdoor Manufacturing or Processing Activities. No actual manufacturing or processing occurs in outdoor, uncovered areas.

- Significant Dust or Particulate Generating Processes. Due to the dry material utilized in the mining process, there is significant dust and particulate material on the site and is (with the associated storage) the most likely source of significant stormwater pollutants on the site. As well as the potential from the Outdoor Storage and Loading/Unloading Areas above, dust and particulates are generated from the vehicle traffic on roadways.

- Onsite Waste Disposal Practices. No solid waste is stored or disposed onsite.

- Fueling. Fueling is performed for seasonal mining equipment only. All fueling operations will be conducted in accordance with the SPCC Plan.

Table 1
Summary of Pollutant Sources and Pollutant Indicators in Stormwater

Source of Pollutant	Pollutant Indicators
General erosion of clay storage areas	TSS
Diesel fuel, lubricants	Semivolatiles, Volatiles, Oil and Grease

Section 7
Best Management Practices

Best Management Practices (BMPs) are measures to prevent or minimize water pollution from sources. BMPs are broad ranging and may include processes, procedures, human actions, or construction. Most BMPs aim at preventing spills and similar environmental incidents by stressing the importance of management and employee awareness of potential spill situations.

7.1 Inspections

The following forms are to be completed. Frequency of completion is noted on the top (daily or when stormwater is released from a containment unit).

Date:_____ Time: _____ Inspector: _____

Worksheet 3

Daily Inspection Log for Petroleum Handling Areas
(inspection required during Seasonal Mining)

Columbus Brick – Pittsview Mine

Area Inspected	Condition Acceptable?		Comments
	Yes	No	
Diesel Fuel storage (onsite temp AST or Mobile Fuel Truck)			
Excavator diesel fuel			
Chemical Coagulant AST (if in use)			

If you answer "No", complete the following sections:

Area requiring action	Cleanup action required (see codes below)	Time started and stopped	Cleanup Personnel

Cleanup Codes: ABS - Absorbents/Rags Used
CLN - Cleaning Agents/Chemicals Used
SOIL - Excavated Soil
OTHER - Other Cleanup Performed

Note: Spills are significant petroleum releases with the potential of impacting stormwater runoff from the plant.

Worksheet 4

Discharge of Uncontaminated Stormwater
From Secondary Containment Areas for Petroleum Bulk Storage
(required when dikes are drained)

Columbus Brick – Pittsview Mine

Date/Time of Discharge	Containment Area & Estimated Volume of Discharge (Volume = L x W x H (in feet) x 7.5 gal/cu. ft. = gallons)	Initials of Person Making Visual Inspection/Person Authorizing Discharge
EXAMPLE *6/6 12:11 pm*	*Fueling Area = 100 gallons or 6"* *Brick Oil Containment = 20 gallons*	*DPJ*

NOTE: Per Page 1e of the NPDES permit (Part I.A.DSN006 Requirement 6), the discharge shall have no sheen, and there shall be no discharge of visible oil, floating solids or visible foam in other than trace amounts.

Worksheet 5

Inspection Log for Stormwater Ditches and Sediment Pond

Columbus Brick – Pittsview Mine

Date/Time of Inspection	Cleanup Action Required (see codes below)	Person Performing Inspection
EXAMPLE *7/7 1 pm*	*All OK or Cleanout of Ditch to I-459 Mine sump------ Performed 7/8*	*JR*

Cleanup Codes: NA - Not Applicable/No Cleanup Required
SOIL - Excavated Soil
OTHER - Other Cleanup Performed
ABS - Absorbents/Rags Used
CLN - Cleaning Agents/Chemicals Used

Note: Spills are significant petroleum releases with the potential of impacting stormwater runoff from the plant.

7.2 Employee Training

Employee training programs are instituted at the facility to inform appropriate employees of environmental considerations including components and goals of the BMP Plan. Training is provided annually to appropriate facility employees. Varying levels of training are provided to employees depending on their responsibilities with regard to implementation or direct impacts of the BMP Plan on their job responsibilities. Records of the topics discussed during employee training and the employees attending each session are stored by the Team Leader when the training is solely provided for the BMP Plan. When training is provided associated with other training records, records may be stored by the Team Leader or in the employee files with Human Resources.

The training program addresses three major areas:

- Spill prevention and response[6]
- Good housekeeping
- Materials management practices

7.3 Sediment and Erosion Control

The areas of the facility that are subject to erosion are the stockpiled clay reserves and roadway dust. The stockpiles are covered and the remaining areas which are uncovered are contoured and sized to prevent formation of significant erosion pathways. In order to reduce the amount of erosion from these smaller sized areas, material is moved in and out on a regular basis to prevent breakdown and other forms of degradation. Any stormwater runoff from these stockpiles drains to the mine sumps and is discharged via the NPDES Outfalls after treatment to remove sediment.

7.4 Management of Runoff

Runoff on the mine sites is managed via drainage swales and ditches. Open ditches are vegetated to minimize erosion and sediment check dams may be used to slow the velocity of water. Stormwater is collected in the mine sumps before being pumped to the sediment pond where it is discharged via the NPDES Outfall.

Based on current evaluation, these measures are sufficient and appropriate for the site.

[6] This is only an awareness training on the subject. Primary training is performed as part of the SPCC Plan implementation. Refer to the SPCC Plan for additional information.

Section 8
Comprehensive Site Compliance Evaluation

Once a year, the Plant Manager or other qualified individual will conduct a comprehensive site inspection to:

1. Confirm the accuracy of the descriptions of potential pollutant sources contained in the BMP.

2. Determine the effectiveness of the Plan.

3. Assess compliance with the terms and conditions of the NPDES permit.

The comprehensive site compliance evaluation is conducted by the Plant Manager or other qualified individual. During the evaluation, material handling and storage areas and other potential sources of pollution are visually inspected for evidence of actual or potential pollutant discharges to the drainage system. Erosion controls and structural stormwater management devices also are inspected to ensure that each is operating correctly. Worksheet 7 is provided at the end of this section to assist in the annual evaluation.

The results of each evaluation are documented in a report signed by the responsible corporate official. The report describes:

- Scope of the evaluation;
- Personnel making the evaluation;
- Date(s) of the evaluation; and
- Major observations relating to the implementation of the BMP.

The evaluation report(s) are retained at the facility for at least one year after the date that the NPDES stormwater permit expires. Annual evaluation reports are stored in Appendix E of the Team Leader's copy of the BMP.

Based on the results of each evaluation, the list of potential pollutant sources and the measures and controls described in this Plan are revised (if appropriate). Any changes in the measures and controls are implemented on the site in a timely manner. In addition, if the evaluation report lists changes at the site that have a significant effect on the potential for the discharge of pollutants to surface waters, the BMP will be amended to describe the changes.

Worksheet 6

Annual Comprehensive Site Compliance Evaluation

For the Year of: _____

Summary of Inspections

Describe the general results and any trends or changes over time. Any noted changes or follow-up on any issues noted. If any specific areas are repeat issues or have become better, summarize that as well.

Summary of Sampling

Describe the general results and any trends or changes over time. *For example, "Outfall 1 appears to be generally turbid with a reddish color with decreasing turbidity over the year. Outfall 2 is a clear discharge with no appearance of contamination. Outfall 3 has increased turbidity, apparently from clay transport, in the fall and spring*."

Facility Changes

Check the appropriate box.

☐ No significant changes were made to the facility during the reporting period.

☐ The following changes were made:

Describe any facility changes that might affect the potential for stormwater contact with significant exposed materials. *For example, "Concrete containment was constructed around the fuel tank."*

Significant Spills

Check the appropriate box.

☐ No significant spill(s) occurred during the reporting period.

☐ The following spill(s) occurred:

Describe the date, location, quantity, material, and remedial measures for reportable quantities. Include steps taken to prevent recurrence.

Sediment and Erosion Control

Check the appropriate box.

☐ No modifications were necessary and no changes to controls were made.

☐ The following modifications were made or will be made:

_____

_____

_____

_____

_____

_____

_____

Significant Exposed Materials/Potential Stormwater Pollutants

Check the appropriate box.

☐ There was no appreciable change in the quantity, type, or location of significant exposed materials at the site.

☐ The following appreciable change(s) occurred:

If the quantity, type or location of significant exposed materials described in Worksheet 1 has changed, modify the Worksheet by hand and attach a copy to this report. *The text of this section would then say: "Changes to the significant exposed materials on the site have been made on the attached Worksheet 1. The changes are basically..."*

_____

_____

_____

_____

_____

_____

Non-Stormwater Discharges

Check the appropriate box.

☐ No non-stormwater discharges were identified during the reporting period.

☐ The following non-stormwater discharge(s) were identified and handled as noted:

Describe the date and location. Refer to Section 4.0 for more detail.

BMPs/Structural Controls

Check the appropriate box.

☐ No BMPs or structural controls were added or modified at the facility during the reporting period.

☐ The following BMPs or structural controls were added or modified:

Note the date the change or addition was implemented and describe the new practice. See Section 7 for an example of the appropriate level of detail.

Outfalls

Check the appropriate box.

☐ No outfalls were added or removed during the past year.

☐ The following outfalls were added or removed during the past year:

Describe the change. *For example: "The southwest corner of the property was regraded during the spring; as a consequence, stormwater is no longer discharged through outfall 002".*

_____

_____

_____

_____

_____

_____

Additional Comments

_____

_____

_____

_____

_____

Evaluation Completed By: _____

Date Evaluation Completed: _____

Regional Manager Approval: _____

Date Approved: _____

Section 9
Record Keeping and Reporting

A record keeping system has been set up at the facility for documenting spills, leaks, and other discharges, including discharges of hazardous substances in reportable quantities. The records contain the following information:

- Date and time of the incident;
- Duration of the spill/leak/discharge;
- Cause of the spill/leak/discharge;
- Response procedures implemented;
- Persons notified; and
- Environmental problems associated with the spill/leak/discharge.

Records of oil spills and leaks are stored with the records copy of the SPCC Plan, and other releases that are significant to the stormwater system are stored in Section 3.

Other records required under the permit are retained by the Plant Manager for at least one year after the expiration of the permit or 3 years from record generation, whichever is greater.

Section 10
Special Requirements

10.1 Section 313 Special Requirements

This facility does not have Section 313 water priority chemicals that they are required to report under Form "R" that are also exposed to stormwater at the facility.

10.2 Salt Piles

This facility does not have a salt pile.

10.3 Discharges to Large or Medium Separate Stormwater Systems

This facility does not discharge to a municipal separate stormwater system.

10.4 Coal Piles

This facility does not have a coal pile.

Section 11
Monitoring and Reporting Requirements

Requirements for sampling are summarized in your permit.

NOTE: If there is any exceedance (or a bypass) you are required to orally report to the State within 24 hours and submit a written report within 5 days. See page 4 of your permit for written report requirements.

Monitoring requirements will be re-evaluated if the operations or facility drainage patterns are substantially altered.

APPENDICES

Appendix A

Site Location Map and Facility Diagram

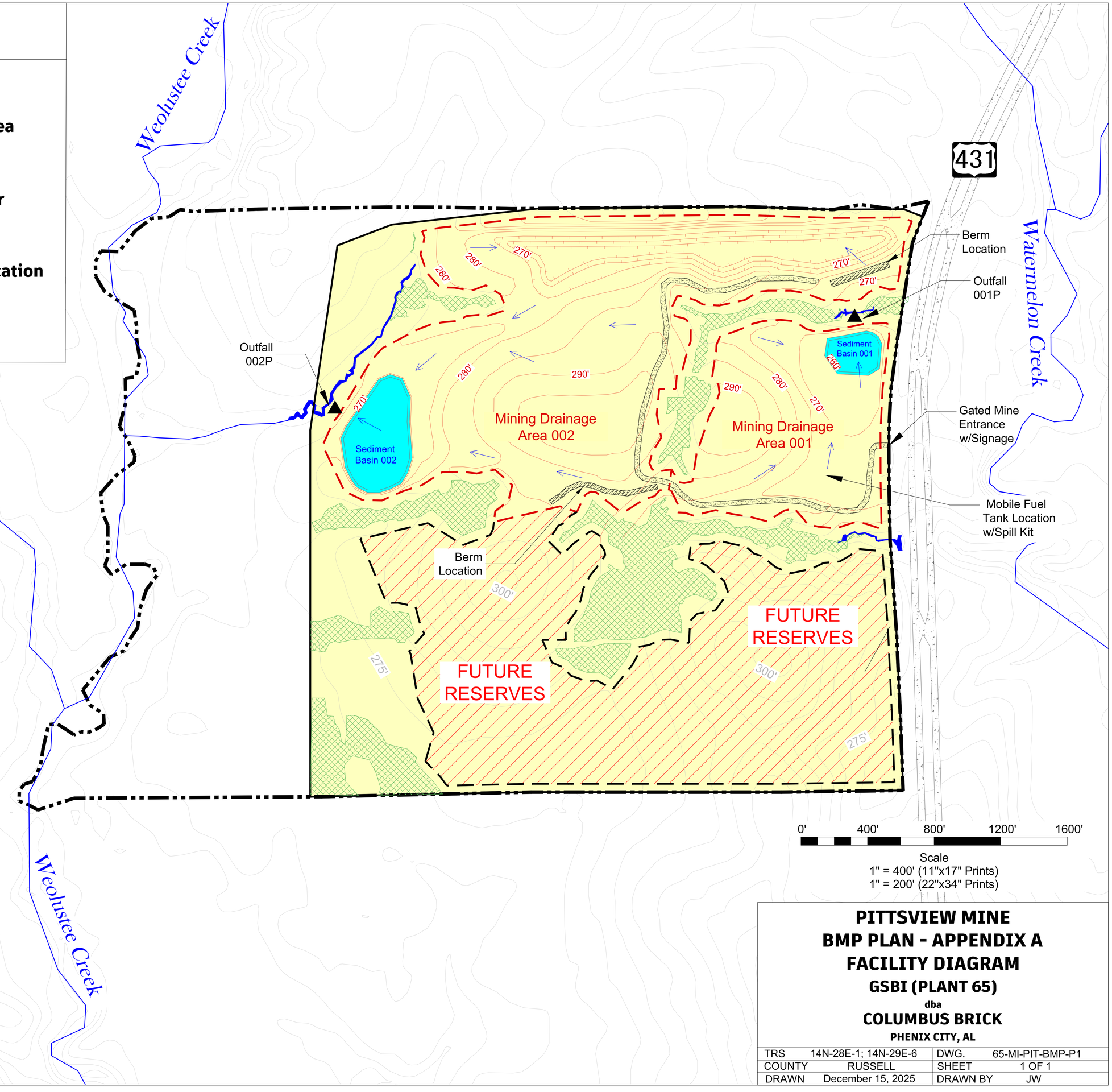
General Shale

wienerberger

- Parcel Line
- Buffer/Drainage Area
- Proposed Permitted Area
- Future Reserves
- Haul Road
- 300' USGS Elevation Contour
- 300' Final Mining Contour
- Stream Location
- Delineated Wetland Location
- Sediment Basin
- Surface Flow Direction
- NPDES Outfall

Notes and References:

- Property lines reflect survey performed on June 6, 2025 by Eddie A. Eubanks, PLS.
- Stream and wetland delineation completed by Moon Meeks and Associates in December 2025.
- US Highway 431 and existing access roads digitized using aerial imagery dated July 29, 2025.
- USGS elevation contours are displayed at 5' intervals and reflect 2024 Pittsview Quad topographic data.
- Projected final mining elevation contours derived from 2025 prospecting data.



Scale
1" = 400' (11"x17" Prints)
1" = 200' (22"x34" Prints)

N
W
E
S

PITTSVIEW MINE
BMP PLAN - APPENDIX A
FACILITY DIAGRAM
GSBI (PLANT 65)
dba
COLUMBUS BRICK
PHENIX CITY, AL

TRS	14N-28E-1; 14N-29E-6	DWG.	65-MI-PIT-BMP-P1
COUNTY	RUSSELL	SHEET	1 OF 1
DRAWN	December 15, 2025	DRAWN BY	JW

Appendix B

Blank and Completed Inspection Reports

Date:_____ Time: _____ Inspector: _____

Daily Inspection Log for Petroleum Handling Areas (inspection required during days of operation)

Columbus Brick - Pittsview Mine

Area Inspected	Condition Acceptable?		Comments
	Yes	No	
Diesel Fuel AST (seasonal)			
Excavator Diesel Fuel			
Chemical Coagulant AST			

If any are is unacceptable (No answer) complete the following sections:

Area requiring action	Cleanup action required (see codes below)	Time started and stopped	Cleanup Personnel

Cleanup Codes: ABS - Absorbents/Rags Used
CLN - Cleaning Agents/Chemicals Used
SOIL - Excavated Soil
OTHER - Other Cleanup Performed

Note: Spills are significant petroleum releases with the potential of impacting stormwater runoff from the plant.

Discharge of Uncontaminated Stormwater From Secondary Containment Areas for Petroleum Bulk Storage

(required when dikes are drained)

Columbus Brick - Pittsview Mine

Date/Time of Discharge	Containment Area & Estimated Volume of Discharge (Volume = L x W x H (in feet) x 7.5 gal/cu. ft. = gallons)	Initials of Person Making Visual Inspection/ Person Authorizing Discharge

NOTE: Per Page 1e of the NPDES permit (Part I.A.DSN006 Requirement 6), the discharge shall have no sheen, and there shall be no discharge of visible oil, floating solids or visible foam in other than trace amounts.

Bi-weekly Inspection Log for Stormwater Ditches and Sediment Pond

Columbus Brick - Pittsview Mine

Date/Time of Inspection	Condition of site?	Person performing Inspection

Appendix C

Blank and Completed Annual Site Compliance Evaluation Forms

Annual Comprehensive Site Compliance Evaluation

For the Year of: _____

Summary of Inspections

Describe the general results and any trends or changes over time. Any noted changes or follow-up on any issues noted. If any specific areas are repeat issues or have become better, summarize that as well.

Summary of Sampling

Describe the general results and any trends or changes over time. For example, *"Outfall 1appears to be generally turbid with a reddish color with decreasing turbidity over the year. Outfall 2 is a clear discharge with no appearance of contamination. Outfall 3 has increased turbidity, apparently from clay transport, in the fall and spring".*

Facility Changes

Check the appropriate box.

☐ No significant changes were made to the facility during the reporting period.

☐ The following changes were made:

Describe any facility changes that might affect the potential for stormwater contact with significant exposed materials. For example*: "Concrete containment was constructed around the fuel tank".*

Significant Spills

Check the appropriate box.

☐ No significant spill(s) occurred during the reporting period.

☐ The following spill(s) occurred:

Describe the date, location, quantity, material, and remedial measures for reportable quantities. Include steps taken to prevent recurrence.

Sediment and Erosion Control

Check the appropriate box.

☐ No modifications were necessary and no changes to controls were made.

☐ The following modifications were made or will be made:

_____

_____

_____

_____

_____

_____

_____

Significant Exposed Materials/Potential Stormwater Pollutants

Check the appropriate box.

☐ There was no appreciable change in the quantity, type, or location of significant exposed materials at the site.

☐ The following appreciable change(s) occurred:

If the quantity, type or location of significant exposed materials described in Worksheet 1 has changed, modify the Worksheet by hand and attach a copy to this report. The text of this section would then say: *"Changes to the significant exposed materials on the site have been made on the attached Worksheet 1. The changes are basically..."*

_____

_____

_____

_____

_____

_____

Non-Stormwater Discharges

Check the appropriate box.

☐ No non-stormwater discharges were identified during the reporting period.

☐ The following non-stormwater discharge(s) were identified and handled as noted:

Describe the date and location. Refer to Section 4.0 for more detail.

BMPs/Structural Controls

Check the appropriate box.

☐ No BMPs or structural controls were added or modified at the facility during the reporting period.

☐ The following BMPs or structural controls were added or modified:

Note the date the change or addition was implemented and describe the new practice. See Section 7 for an example of the appropriate level of detail.

Outfalls

Check the appropriate box.

☐ No outfalls were added or removed during the past year.

☐ The following outfalls were added or removed during the past year:

Describe the change. For example, *"The southwest corner of the property was regraded during the spring; as a consequence, stormwater is no longer discharged through outfall 002".*

_____

_____

_____

_____

_____

_____

Additional Comments

_____

_____

_____

_____

_____

Evaluation Completed By: _____

Date Evaluation Completed: _____

Regional Manager Approval: _____

Date Approved: _____

APPENDIX C

Spill Prevention, Control, and Countermeasures (SPCC) Plan

APPENDIX D

Sediment Basins Calculations & Modeling

General Shale Brick, Inc.
BASIN DESIGN CALCULATIONS
Russell County, AL
MINE NAME Pittsview
PERMIT NUMBER:
BASIN NUMBER: 001

Basin Design

AREA

Area	Acres
Entire Watershed	29.0
Disturbed Area	29.0

Basin sized to 0.25 acre-ft per acre of drainage (ADEM Surface Mining Rules)
Spillway and Channel sized for the 100-yr / 24-hr storm event

BASIN VOLUME

Vol_{Basin} = 0.25 acre-feet * (Disturbed Acreage) * 43560 ft^2/acre

Vol_{Basin} = 315,509 ft^3
7.2 ac-ft

Disturbed Acreage= 29.0 acres

BASIN SIZE CALCULATION (Contour method)

Calc Vol 335935 ft^3 1.06 times bigger than required

Start at Bottom of Basin (Depth = 0) determine area from map per contour

	Depth of Basin	Area	Ave Area*	Contour Interval	Interval Volume	Cum Vol	Basin Volume Indicator	Depth Elev.	Sediment Cleanout Depth
Bottom	0	60000			0	0		655	665
	5	**74640**	67187	5	335935	335935	Use	660	
	5		24880	0	0	335935			
			0		0	335935			
			0	0	0	335935			
			0	0	0	335935			
			0	0	0	335935			
			0	0	0	335935			
Top			0	0	0	335935			
			0	0	0	335935			

* Conic Method for Reservoir Volumes
(Area1 + Area2 + (SQRT (Area1 * Area2))) * 1/3

Spillway, Diversion Ditch, and/or Culvert Design

PEAK DISCHARGE VIA WinTR-55 SCS

Q_{50} = 175.2 Ft^3/sec

Q_{100} = 191.3 Ft^3/sec

Flow needed

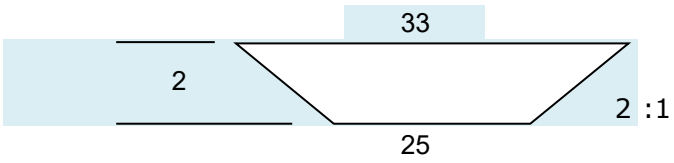
SPILLWAY

Spillway Weir should be 2' deep and 25' wide at the base.
Spillway Channel should be 2' deep and 8' wide at the base.

Spillway Weir

Q_{weir} = 198.0 Ft^3/sec

Flow provided



Broad-Crested Weir Formula
$Q_{weir}=C*L*H_1^{1.5}$
C=2.8
L=Length of Spillway Weir
H_1=Height of Flow

$Q_{weir} > Q_{100}$? Yes

Spillway Channel

$Q_{channel}=(1.486/n)*A*R_H^{2/3}*S^{1/2}$

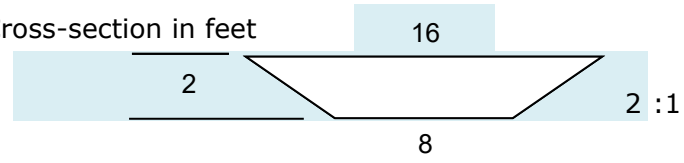
$Q_{channel}$ = 205.5 Ft^3/sec

Flow provided

Length	35	ft
Elev. Drop	1	ft
S = Slope	0.029	ft/ft
Wetted Perimeter	16.9	
R_H = Hydraulic Radius	1.42	ft
n = Manning Number	0.037	riprap
A = Area	24	ft^2

↳ based on section below

Channel Cross-section in feet



$Q_{channel} > Q_{100}$? Yes

Riprap (Channel)

$D_{50}=\gamma*d*S/5$

Bottom

D_{50} = 0.713 ft
8.6 in

γ = 62.4 lb/ft^3 Water Density
d = 2.0 ft Depth
S = 0.029 ft/ft Slope

2 :1 side slope

Side Slope D_{50} = Bottom D_{50} * K1/K2
K1 = from Chart
$K2 = (1-\sin^2(\varphi)/\sin^2(\theta))^{1/2}$

K1 = 0.78 φ = 26.6 deg 0.46 rad
K2 = 0.74 θ = 41.5 deg 0.72 rad
Side Slope D_{50} = 0.75 ft
9 in

WinTR-55 Current Data Description

--- Identification Data ---

User: Gen Shale
Project: Pittsview 001
SubTitle: Calculations for Basin 001
State: Alabama
County: Russell
Filename: G:_ENVIRONMENTAL\Wyse\Phenix City\Pittsview\Pittsview 001.w55

Date: 12/9/2025
Units: English
Areal Units: Acres

--- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Tc
Area 001		Reach 1	29	91	.204

Total area: 29 (ac)

--- Storm Data --

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	1-Yr (in)
4.3	5.5	6.5	7.5	8.2	8.9	3.6

Storm Data Source: Russell County, AL (NRCS)
Rainfall Distribution Type: Type III
Dimensionless Unit Hydrograph: <standard>

Pittsview 001
Calculations for Basin 001
Russell County, Alabama

Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	Peak Flow and Peak Time (hr) by Rainfall Return Period 50-Yr (cfs)	(hr)	100-Yr (cfs)	(hr)
SUBAREAS				
Area 001	175.23	12.15	191.34	12.15
REACHES				
Reach 1	175.23	12.15	191.34	12.15
Down	133.71	12.26	146.88	12.26
OUTLET	133.71		146.88	

Pittsview 001
Calculations for Basin 001
Russell County, Alabama

Structure Output Table

Reach Identifier / Structure Identifier	Peak Flow (PF), Storage Volume (SV), Stage (STG) by Rainfall Return Period 50-Yr	100-Yr
Reach: Reach 1		
Weir : Basin 001		
25(ft)		
PF (cfs)	133.71	146.88
SV (ac ft)	2.65	2.83
STG (ft)	1.50	1.60

Pittsview 001
Calculations for Basin 001
Russell County, Alabama

Structure Description - User Entered

Reach Identifier	Surface Area @ Crest (ac)	Height Above Crest (ft)	Surface Area @ Ht Above (ac)	Pipe Diameter (in)	Head on Pipe (ft)	Weir Length (ft)
Reach 1	1.7	2	1.86			25

Pittsview 001
Calculations for Basin 001
Russell County, Alabama

Structure Rating Details - Computed

Reach Idendifier	Stage (ft)	Pool Storage (ac ft)	Flows (cfs) @ Weir Length Length #1 25ft	Length #2 ft	Length #3 ft
Basin 001	0	0.00	0.000		
	0.5	0.86	24.749		
	1	1.74	70.000		
	2	3.56	197.990		
	5	9.50	782.624		
	10	21.00	2213.594		
	20	50.00	6260.990		

General Shale Brick, Inc.
BASIN DESIGN CALCULATIONS
Russell County, AL
MINE NAME Pittsview
PERMIT NUMBER:
BASIN NUMBER: 002

Basin Design

AREA

Area	Acres
Entire Watershed	85.8
Disturbed Area	85.8

Basin sized to 0.25 acre-ft per acre of drainage (ADEM Surface Mining Rules)
Spillway and Channel sized for the 100-yr / 24-hr storm event

BASIN VOLUME

Vol_{Basin} = 0.25 acre-feet * (Disturbed Acreage) * 43560 ft^2/acre

Vol_{Basin} = 934,009 ft^3
21.4 ac-ft

Disturbed Acreage= 85.8 acres

BASIN SIZE CALCULATION (Contour method)

Calc Vol 1058619 ft^3 1.13 times bigger than required

Start at Bottom of Basin (Depth = 0) determine area from map per contour

	Depth of Basin	Area	Ave Area*	Contour Interval	Interval Volume	Cum Vol	Basin Volume Indicator	Depth Elev.	Sediment Cleanout Depth
Bottom	0	198472			0	0		265	275
	5	**225258**	211724	5	1058619	1058619	Use	270	
	5		75086	0	0	1058619			
			0		0	1058619			
			0	0	0	1058619			
			0	0	0	1058619			
			0	0	0	1058619			
			0	0	0	1058619			
Top			0	0	0	1058619			
			0	0	0	1058619			
			0	0	0	1058619			

* Conic Method for Reservoir Volumes
(Area1 + Area2 + (SQRT (Area1 * Area2))) * 1/3

Spillway, Diversion Ditch, and/or Culvert Design

PEAK DISCHARGE VIA WinTR-55 SCS

Q_{50} = 477.8 Ft^3/sec

Q_{100} = 521.4 Ft^3/sec

Flow needed

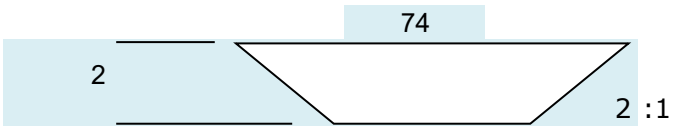
SPILLWAY

Spillway Weir should be 2' deep and 66' wide at the base.
Spillway Channel should be 2' deep and 22' wide at the base.

Spillway Weir

Q_{weir} = 522.7 Ft^3/sec

Flow provided



Broad-Crested Weir Formula
$Q_{weir}=C*L*H_1^{1.5}$
C=2.8
L=Length of Spillway Weir
H_1=Height of Flow

$Q_{weir} > Q_{100}$? Yes

Spillway Channel

$Q_{channel}=(1.486/n)*A*R_H^{2/3}*S^{1/2}$

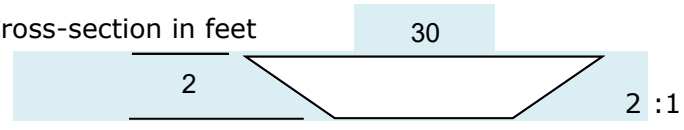
$Q_{channel}$ = 524.8 Ft^3/sec

Flow provided

Length	60	ft
Elev. Drop	2	ft
S = Slope	0.033	ft/ft
Wetted Perimeter	30.9	
R_H = Hydraulic Radius	1.68	ft
n = Manning Number	0.038	riprap
A = Area	52	ft^2

↳ based on section below

Channel Cross-section in feet



$Q_{channel} > Q_{100}$? Yes

Riprap (Channel)

$D_{50}=\gamma*d*S/5$

Bottom

D_{50} = 0.832 ft
10.0 in

γ = 62.4 lb/ft^3 Water Density
d = 2.0 ft Depth
S = 0.033 ft/ft Slope

2 :1 side slope

Side Slope D_{50} = Bottom D_{50} * K1/K2
K1 = from Chart
$K2 = (1-\sin^2(\varphi)/\sin^2(\theta))^{1/2}$

K1 = 0.78 φ = 26.6 deg 0.46 rad
K2 = 0.73 θ = 41 deg 0.72 rad
Side Slope D_{50} = 0.89 ft
11 in

WinTR-55 Current Data Description

--- Identification Data ---

User: Gen Shale
Project: Pittsview 002
SubTitle: Calculations for Basin 002
State: Alabama
County: Russell
Filename: G:_ENVIRONMENTAL\Wyse\Phenix City\Pittsview\Pittsview 002.w55

Date: 12/10/2025
Units: English
Areal Units: Acres

--- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Tc
Area 002		Reach 1	61.1	91	.292
Area 003		Reach 1	24.7	91	.232

Total area: 85.80 (ac)

--- Storm Data --

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	1-Yr (in)
4.3	5.5	6.5	7.5	8.2	8.9	3.6

Storm Data Source: Russell County, AL (NRCS)
Rainfall Distribution Type: Type III
Dimensionless Unit Hydrograph: <standard>

Pittsview 002
Calculations for Basin 002
Russell County, Alabama

Watershed Peak Table

Sub-Area or Reach Identifier	Peak Flow by Rainfall Return Period 50-Yr (cfs)	100-Yr (cfs)
SUBAREAS		
Area 002	335.98	366.70
Area 003	144.89	157.98
REACHES		
Reach 1	477.83	521.42
Down	365.86	401.85
OUTLET	365.86	401.85

Pittsview 002
Calculations for Basin 002
Russell County, Alabama

Structure Output Table

Reach Identifier / Structure Identifier	Peak Flow (PF), Storage Volume (SV), Stage (STG) by Rainfall Return Period	
	50-Yr	100-Yr
Reach: Reach 1		
Weir : Basin 02 66(ft)		
PF (cfs)	365.86	401.85
SV (ac ft)	8.10	8.67
STG (ft)	1.54	1.64

Pittsview 002
Calculations for Basin 002
Russell County, Alabama

Structure Description - User Entered

Reach Identifier	Surface Area @ Crest (ac)	Height Above Crest (ft)	Surface Area @ Ht Above (ac)	Pipe Diameter (in)	Head on Pipe (ft)	Weir Length (ft)
Reach 1	5.17	2	5.42			66

Pittsview 002
Calculations for Basin 002
Russell County, Alabama

Structure Rating Details - Computed

Reach Idendifier	Stage (ft)	Pool Storage (ac ft)	Flows (cfs) @ Weir Length Length #1 66ft	Length #2 ft	Length #3 ft
Basin 02	0	0.00	0.000		
	0.5	2.60	65.337		
	1	5.23	184.800		
	2	10.59	522.693		
	5	27.41	2066.127		
	10	57.95	5843.889		
	20	128.40	16529.014		