

KAY IVEY GOVERNOR

#### **Alabama Department of Environmental Management** adem.alabama.gov

MAR 2 D 2020

1400 Coliseum Blvd. 36110-2400 Post Office Box 301463 Montgomery, Alabama 36130-1463 (334) 271-7700 • FAX (334) 271-7950

Jim Bevill Lands & Mines Manager Carbo Ceramics, Inc. 36 Arch Drive Eufaula, AL 36027

RE:

Draft Permit

Carbo-Bell Bauxite Pit

NPDES Permit No. AL0082171

Henry County (067)

Dear Mr. Bevill:

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.

The Department utilizes a web-based electronic environmental (E2) reporting system for electronic DMR submittal. Please read Part I.D of the permit carefully and visit https://e2.adem.alabama.gov/npdes.

Should you have any questions concerning this matter, please contact Amber Powell by email at amber.powell@adem.alabama.gov or by phone at (334) 271-7975.

Sincerely,

hemmen West Catherine A. McNeill, Chief Mining and Natural Resource Section Stormwater Management Branch Water Division

CAM/ahp

File: DPER/43956

Enclosure

cc: Amber Powell, 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

Alabama Department of Labor







# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM INDIVIDUAL PERMIT

PERMITTEE:

Carbo Ceramics, Inc.

36 Arch Drive

Eufaula, Alabama 36027

**FACILITY LOCATION:** 

Carbo-Bell Bauxite Pit

County Road 86 Abbeville, AL 36310 Henry County

T8N, R28E, S4

PERMIT NUMBER:

**EXPIRATION DATE:** 

AL0082171

**DSN & RECEIVING STREAM:** 

001-1 Unnamed Tributary to Billy Branch Creek 002-1 Unnamed Tributary to Billy Branch Creek

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §\$1251-1378 (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-16, 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:

\*\* DRAFT \*\*

Alabama Department of Environmental Management

# MINING AND NATURAL RESOURCE SECTION NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

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#### PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

#### A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

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

Parameter	Discharge Limitations			Monitoring Requirements		
rarameter	Daily Minimum	Monthly Average	Daily Maximum	Sample Type	Measurement Frequency <sup>1</sup>	
pН	6.0		8.5	Grab	2/Month	
00400	s.u.		s.u.	Giao	2/1011111	
Solids, Total Suspended		20.0	30.0	Grab	2/Month	
00530		mg/L	mg/L			
Iron, Total (as Fe)		0.5	1.0	Grab	2/Month	
01045		mg/L	mg/L			
Aluminum, Total (as Al)		1.0	2.0	Grab	2/Month	
01105		mg/L	mg/L	Grab	2/Month	
Flow, In Conduit or Thru Treatment Plant <sup>2</sup>		Report	Report	Instantancous	2/Month	
50050		MGD	MGD	Instantaneous		

#### 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.
- 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.

See Part I.C.2. for further measurement frequency requirements.

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

#### 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 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. If required by the Director, 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

- 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. The Department is utilizing a web-based electronic environmental (E2) reporting system for submittal of DMRs. The E2 DMR system allows ADEM to electronically validate, acknowledge receipt, and upload data to the state's central wastewater database. This improves the accuracy of reported compliance data and reduces costs to both the regulated community and ADEM. If the Permittee is not already participating in the E2 DMR system, the Permittee must apply for participation in the E2 DMR system

within 180 days of the effective date of this permit unless valid justification as to why they cannot participate is submitted in writing. After 180 days, hard copy DMRs may be used only with written approval from the Department. To participate in the E2 DMR system, the Permittee Participation Package may be downloaded online at https://e2.adem.alabama.gov/npdes. If the electronic environmental (E2) 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 E2 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 E2 system resuming operation, the Permittee shall enter the data into the E2 reporting system unless an alternate timeframe is approved by the Department. An attachment should be included with the E2 DMR submittal verifying the original submittal date (date of the fax, copy of dated email, or hand-delivery stamped date). If a permittee is allowed to submit via the US Postal Service, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this Permit. 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. 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.

- b. The Permittee shall report "No Discharge During Quarterly Monitoring Period" on the appropriate DMR Form for each point source receiving pumped discharges pursuant to Part I.C.1.b. provided that no discharge has occurred at <u>any</u> time during the entire quarterly (three month) monitoring period.
- c. Each DMR Form submitted by the Permittee to the Department in accordance with Part I.D.1.a. 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.
- d. 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."

e. All DMRs, reports, and forms required to be submitted by this Permit, the AWPCA and the Department's rules and regulations, 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

- f. 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.
- g. 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.a.

#### 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;
  - (6) Potentially threatens fish or aquatic life;
  - (7) Causes an in-stream water quality criterion to be exceeded;
  - (8) 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);
  - (9) 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
  - (10) 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. Form 401 or 421 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, times, and duration of the noncompliance. If not corrected by the due date of the written report, then the Permittee is to state the anticipated timeframe that is expected to transpire before the noncompliance is resolved; 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:
  - 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.d. 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

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, the information indicated in ADEM Admin. Code r. 335-6-9-.03 and ADEM Admin. Code ch. 335-6-9 Appendices A and 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).

#### 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 required by applicable state (ADEM Admin. Code r. 335-6-6-.12(r)) and federal (40 C.F.R. §§112.1-.7)

regulations. The Permittee shall implement appropriate structural and/or non-structural spill prevention, control, and/or management 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. Careful consideration should be applied for tanks or containers located near treatment ponds, water bodies, or high traffic areas. In most situations this would require construction of a containment system if the cumulative storage capacity of petroleum products or other pollutants at the facility is greater than 1320 gallons. 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 applicant shall maintain onsite or have readily available flotation booms to contain, and sufficient material to 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 an approved manner.

- 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. Except as provided in Parts II.B.2.b. and c., a discharge which results from an upset need not meet the applicable discharge limitations specified in Part I.A. of this Permit if:
  - (1) No later than 24-hours after becoming aware of the occurrence of the upset, the Permittee orally reports the occurrence and circumstances of the upset to the Director; and
  - (2) No later than five (5) days after becoming aware of the occurrence of the upset, the Permittee furnishes 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.

- b. Notwithstanding the provisions of Part II.B.2.a., 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 exempted from the discharge limitations specified in Part I.A. of this Permit 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.
- c. The Permittee has the burden of establishing that each of the conditions of Parts II.B.2.a. and b. have been met to qualify for an exemption from the discharge limitations specified in Part I.A. of this Permit.

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

- a. Except as provided by ADEM Admin. Code r. 335-6-6-.02(g) 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(g) 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.

#### 4. 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.

#### 5. Groundwater

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

#### 6. 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 <u>Code of Alabama</u> 1975, §§22-22A-1 <u>et</u>. <u>seq</u>., as amended, and/or a criminal penalty as authorized by <u>Code of Alabama</u> 1975, §22-22-1 <u>et</u>. <u>seq</u>., 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.
- 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. 335-6-6-0.09.
- 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 <u>Code of Alabama</u> 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 <u>Code of Alabama</u> 1975, §22-22-14.

#### D. **DEFINITIONS**

- 1. Alabama Environmental Management Act (AEMA) means <u>Code of Alabama</u> 1975, §§22-22A-1 <u>et. seq.</u>, as amended.
- 2. Alabama Water Pollution Control Act (AWPCA) means <u>Code of Alabama</u> 1975, §§22-22-1 <u>et</u>. seg., 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. Bauxitic clay means a refractory clay containing bauxite which is mined for use as a refractory material and is not usable as an aluminum ore.
- 6. Bauxitic clay mine means an area, on or beneath land, used or disturbed in activity related to the extraction, removal, or recovery of bauxitic clay from natural or artificial deposits, including active mining, reclamation, and mineral storage areas.
- 7. BOD means the five-day measure of the pollutant parameter biochemical oxygen demand
- 8. Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
- CBOD means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
- 10. Controlled Surface Mine Drainage means any surface mine drainage that is pumped or siphoned from the active mining area.
- 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.
- 12. Daily maximum means the highest value of any individual sample result obtained during a day.
- 13. Daily minimum means the lowest value of any individual sample result obtained during a day.
- 14. Day means any consecutive 24-hour period.
- 15. Department means the Alabama Department of Environmental Management.
- 16. Director means the Director of the Department or his authorized representative or designee.
- 17. Discharge means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state." <u>Code of Alabama</u> 1975, §22-22-1(b)(8).
- 18. Discharge monitoring report (DMR) means the form approved by the Director to accomplish monitoring report requirements of an NPDES Permit.
- 19. DO means dissolved oxygen.
- 20. Dry process bauxitic clay and kaolin processing plants and associated areas means facilities engaged in crushing, screening, drying, or stockpiling of bauxitic clay or kaolin including the processing facility, plant roads, stockpiles, and any other areas associated with the facility. Facilities which use any form of wet processing or chemical treatment are excluded under this definition.
- 21. E. coli means the pollutant parameter Escherichia coli.

- 22. 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.
- 23. EPA means the United States Environmental Protection Agency.
- 24. Federal Water Pollution Control Act (FWPCA) means 33 U.S.C. §§1251 et. seq., as amended.
- 25. Flow means the total volume of discharge in a 24-hour period.
- 26. 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).
- 27. 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.
- 28. 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.
- 29. 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.
- 30. Kaolin means a refractory clay containing kaolinite.
- Kaolin mine means an area, on or beneath land, used or disturbed in activity related to the extraction, removal, or recovery of kaolin from natural or artificial deposits, including active mining, reclamation, and mineral storage areas.
- 32. mg/L means milligrams per liter of discharge.
- 33. MGD means million gallons per day.
- 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.)
- 35. 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.

#### 36. 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.
- 37. NH3-N means the pollutant parameter ammonia, measured as nitrogen.
- 38. 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.
- 39. Permit application means forms and additional information that are required by ADEM Admin. Code r. 335-6-6-.08 and applicable permit fees.
- 40. 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).
- 41. 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.
- 42. Pollutant of Concern means those pollutants for which a water body is listed as impaired or which contribute to the listed impairment.
- 43. 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
- 44. 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.
- 45. 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.
- 46. 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".
- 47. 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.
- 48. Receiving Stream means the "waters" receiving a "discharge" from a "point source".
- 49. 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.
- 50. 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.
- 51. TKN means the pollutant parameter Total Kjeldahl Nitrogen.
- 52. TON means the pollutant parameter Total Organic Nitrogen.
- 53. TRC means Total Residual Chlorine.
- 54. TSS means the pollutant parameter Total Suspended Solids
- 55. 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.
- 56. 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.
- 57. 24-hour precipitation event means that amount of precipitation which occurs within any 24-hour period.
- 58. 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.

- 59. 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.
- 60. 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.
- 61. Week means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
- 62. 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.
- 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. Impaired waters are those that do not meet applicable water quality standards and are identified on the State of Alabama's §303(d) list or on an EPA-approved or EPA-established TMDL. Pollutants of concern are those pollutants for which the receiving water is listed as impaired or contribute to the listed impairment.
- 2. Facilities that discharge into a receiving stream which is listed on the State of Alabama's §303(d) list of impaired waters, and with discharges that contain the pollutant(s) for which the waters are impaired, must within six (6) months of the Final §303(d) list approval, document in its BMP plan how the BMPs will control the discharge of the pollutant(s) of concern, and must ensure that there will be no increase of the pollutants of concern. A monitoring plan to assess the effectiveness of the BMPs in achieving the allocations must also be included in the BMP plan.
- 3. If the facility discharges to impaired waters as described above, it must determine whether a TMDL has been developed and approved or established by EPA for the listed waters. If a TMDL is approved or established during this Permit cycle by EPA for any waters into which the facility discharges, the facility must review the applicable TMDL to see if it includes requirements for control of any water discharged by the Permittee. Within six (6) months of the date of TMDL approval or establishment, the facility must notify the Department on how it will modify its BMP plan to include best management practices specifically targeted to achieve the allocations prescribed by the TMDL, if necessary. Any revised BMP plans must be submitted to the Department for review. The facility must include in the BMP plan a monitoring component to assess the effectiveness of the BMPs in achieving the allocations.

### ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WATER DIVISION

#### NPDES INDIVIDUAL PERMIT RATIONALE

Company Name: Carbo Ceramics, Inc.

Facility Name: Carbo-Bell Bauxite Pit

County: Henry County

Permit Number: AL0082171

Prepared by: Amber H. Powell

Date: January 6, 2020

Receiving Waters: Unnamed Tributary ro Billy Branch Creek

Permit Coverage: Dry Process Bauxitic Clay Mine, Dry Preparation, Transportation and Storage, and

Associated Areas

**SIC Code:** 1459 and 1455

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

This proposed permit covers a bauxitic clay mining pit and associated dry preparation areas.

This proposed permit authorizes treated discharges into a stream segment, other State waters, or local watershed that currently has a water quality classification of Fish and Wildlife (F&W) (ADEM Admin. Code r. 335-6-10-.09). 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 for the receiving stream.

The bauxitic clay and kaolin mining discharge limitations for Total Suspended Solids, Total Iron as Fe, and Total Aluminum as Al are based on best professional judgement with consideration given to bauxite ore limitations established in 40 CFR Part 440.20.

Discharge limitations for pH of 6.0-8.5 s.u. are based on instream water quality standards for streams classified as Fish & Wildlife found in ADEM Admin. Code r. 335-6-10-.09. The proposed limitations have been shown to be protective of water quality, this is a reduction of the previous permit pH limits of 6.0-9.0 s.u. Regardless, the discharge shall not cause the in-stream pH to deviate more than 1.0 s.u. from the normal or natural pH, nor be less than 6.0 s.u. nor greater than 8.5 s.u.

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

The 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 water quality standards. 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 water quality standards.

In accordance with ADEM Admin. Code R. 335-6-3-.07 the design professional engineer, 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 water quality standards, 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 water quality standards 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 water quality standards.

If the requirements of the proposed permit are fully implemented, there is reasonable assurance that the pollutants will not be present in the discharge at levels of concern and/or the facility will not discharge pollutants at levels that will cause or contribute to a violation of applicable State water quality standards in the receiving water.

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

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

The applicant is not proposing discharges into a stream segment or other State water that is included on Alabama's current CWA §303(d) list. However, as previously mentioned, the discharge occurs upstream of a segment of Abbie Creek that is included on Alabama's Current CWA §303(d) list for pathogens, If the requirements of the proposed permit and pollution abatement plan are fully are fully implemented, there is reasonable assurance that the facility will not discharge pollutants at levels that will cause or contribute to any further impairment of Abbie Creek.

The applicant is not proposing discharges of pollutants to an ADEM identified Tier I water.

The proposed permit action does not authorize new or increased 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).

S: 138078 P: 205227.1 F:00471.1

# ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) NPDES INDIVIDUAL PERMIT APPLICATION (MINING OPERATIONS)

Instructions: 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. Please complete all questions. Respond with "N/A" as appropriate. Incomplete or incorrect answers or missing signatures will delay processing. Attach additional comments or information as needed. If space is insufficient, continue on an attached sheet(s) as necessary. Commencement of activities applied for as detailed in this application are not authorized until permit coverage has been issued by the Department. Please type or print legibly in blue or black ink. PURPOSE OF THIS APPLICATION ☐ Initial Permit Application for New Facility ☐ Initial Permit Application for Existing Facility (e.g. facility previously permitted less than 5 acres) Modification of Existing Permit Reissuance of Existing Pennit Reissuance & Modification Existing Permit ☐ Reissuance & Transfer of Existing Permit ☐ Revocation and Reissuance of Existing Permit ☐ Other RECEIVED I. GENERAL INFORMATION NPDES Permit Number (Not applicable if initial permit application): County(s) in which Facility is Located: APR 02 2018 HENRY STORM WATER Facility Name (e.g., Mine Name, Pit Name, etc.): MANAGEMENT BRANC Company/Permittee Name: Carbo Ceramics, Inc. Carbo-Bell Bauxite Pit Mailing Address of Company/Permittee: Physical Address of Facility (as near as possible to entrance): 36 Arch Drive 36 Arch Drive City: State: Zip: City: State: Zip: Eufaula AL 36027 Eufaula  $\mathsf{AL}$ 36027 Permittee Phone Number: Permittee Fax Number: Latitude and Longitude of entrance: 334-687-7005 334-687-6136 31.701461, -85.253526 Responsible Official (as described on page 12 of this application): Responsible Official Title: Jim Bevill Lands & Mines Manager Mailing Address of Responsible Official: Physical Address of Responsible Official: 36 Arch Drive 36 Arch Drive City: State: Zip: City: State: Zip: Eufaula ΑL 36027 Eufaula AL36027 Fax Number of Responsible Official: Phone Number of Responsible Official: Email Address of Responsible Official: 334-687-7005 334-687-6136 james.bevill@carboceramics.com Facility Contact: Facility Contact Title: Jim Bevill Lands & Mines Manager Physical Address of Facility Contact: Phone Number of Facility Contact: Fax Number of Facility Contact: 36 Arch Drive 334-687-7005 334-687-6136

Zip:

36027

City:

Eufaula

State:

AL

Email Address of Facility Contact:

james.bevill@carboceramics.com

#### II. MEMBER INFORMATION

A.	Identify the name, title/position, an partner, LLC member, investor, dire or beneficial owner of 10 percent or legal or decision making responsibil	ector, or person performing a for r more of any class of voting s	unction similar to a director, of the stock of the applicant, or any other	applicant, and each person wi	ho is the record	
Na	me:	Title/Position:	Physical Address of Residence	(P.O. Box is Not Acceptable	:)	
М	ark Edmunds	VP of Operations	36 Arch Drive, Eufaula,	, AL 36027		
-						
В.	Other than the "Company/Permittee which any individual identified in performing a function similar to a clive year (60 month) period immediately.	Part II.A. is or was an officer lirector, or principal (10% or r	, general partner, LLP partner, LL more) stockholder, that had an Ala	.C member, investor, director	r, or individual	
As	me of Corporation, Partnership. sociation, or Single Proprictorship: one	Name of Individ	lual from Part (f.A.;	Title/Position in Corporatio Association, or Single Prop		
					···············	
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HI.	LEGAL STRUCTURE OF APPL	ICANT				
A.	Indicate the legal structure of the "C	Company/Permittee" listed in P	Part I:			
	Corporation Associatio	n 🗌 Individual 🗀	Single Proprietorship P	artnership 🔲 LLP	☐ LLC	
	Government Agency:		Other:			
В.	If not an individual or single propri standing with the Alabama Secretar	etorship, is the "Company/Per y of State's Office? (If the an	mittee" listed in Part I. properly rep swer is "No," attach a letter of expl	gistered and in good 🏻 🏢 🐧 anation.)	íes 🗌 No	
C.	Parent Corporation and Subsidiary Corporations of Applicant, if any: None					
D.	Land Owner(s): James & Willia	am Bell, 113 County Ro	pad 213, Abbeville, AL 363	10		
E.	Mining Sub-contractor(s)/Operator(	s), if known: None			<del> </del>	
IV.	COMPLIANCE HISTORY					
A.	Has the applicant ever had any of th	e following:				
	(1) An Alabama NPDES, SID, or U	JIC permit suspended or termi	Yes No nated? []			
	(2) An Alabama license to mine sur	spended or revoked?				
	(3) An Alabama or federal mining	permit suspended or terminate	d? 🔲 🔲			
	(4) A reclamation bond, or similar:	security deposited in lieu of a	bond, or portion thereof, forfeited?		Yes No	
	(5) A bond or similar security depo	sited in lieu of a bond, or porti		as to secure compliance		
		response to any item of Part I'	V.A. is "Yes," attach a letter of exp	olanation.)		
₿.	Identify every Warning Letter, No subsidiary, general partner, LLP par on which this form is signed. Indicated date of final resolution:	tner, or LLC member and filed	I by ADEM or EPA during the thre	e year (36 months) period pre	ceding the date	
	None known		-			
1						

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V. OTHER PERMITS/AUTHORIZATIONS						
A. 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 Surface Mining Commission (ASMC), Alabama Department of Labor (ADOL), US Army Corp of Engineers (USACE), or other agency, to the applicant, parent corporation, subsidiary, or LLC member for this facility whether presently effective, expired, suspended, revoked, or terminated: ADIR Permit						
B. List my 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 for other facilities whether presently effective, expired, suspended, revoked, or terminated:						
SEE ATTACHMENT						
VI. PROPOSED SCHEDULE						
Anticipated Activity Commencement Date: Ongoing	Anticipat	ed Activity Completion Date: _ 9/1	9			
VII. ACTIVITY DESCRIPTION & INFORMATION						
	res Proposed Total	Disturbed Area of the Permitted Site:	22.0 acres			
B. Township(s), Range(s), Section(s); T-8-N, R-28-E,	Section 4					
C. Detailed Directions to Site: Head south from Et	ufaula on US H	lwy 431, right on Co. Ro	d 86, haul road			
entrance is 1.8 miles on the right						
D. Is/ will this facility:  (1) an existing facility which currently results in discharges to State waters?  (2) a proposed facility which will result in a discharge to State waters?  (3) be located within any 100-year flood plain?						
<ul> <li>(4) discharge to Municipal Separate Storm Sewer?</li> <li>(5) discharge to waters of or be located in the Coastal Zon</li> <li>(6) need/have ADEM UIC permit coverage?</li> </ul>	e?					
(7) be located on Indian/ historically significant lands?						
(8) need/have ADEM SID permit coverage? (9) need/have ASMC permit coverage?						
(10) need/have ADOL permit coverage?	. 0 (16/31 . 2 4	of the second of the second				
(11) generate, treat, store, or dispose of hazardous or toxic waste? (If "Yes," attach a detailed explanation.)  (12) be located in or discharge to a Public Water Supply (PWS) watershed or be located within ½ mile of any PWS well?						
VIII. MATERIAL TO BE REMOVED, PROCESSED, OR TRANSLOADED						
List relative percentages of the mineral(s) or mineral product(s) that are proposed to be and/or are currently mined, quarried, recovered, processed, handled, transloaded, or disposed at the facility. If more than one mineral is to be mined, list the relative percentages of each mineral by tonnage for the life of the mine.						
Dirt &/or ChertSand &/or GravelChalk	:	Tale	_Crushed rock (other)			
BentoniteIndustrial SandMarb	le	Shate &/or Common Clay	_Sandstone			
CoalKaolinCoal	fines/refuse recovery	Coal product, coke	_Slag, Red Rock			
	nsion stone	Phosphate rock	_Granite			
100 Bauxitic Clay Bauxite Ore Lime	Bauxitic Clay Bauxite Ore Limestone, crushed limestone and dolomite					
Gold, other trace minerals:	Gold, other trace minerals: Other:					
Other:Other:						
Other:		Other:				

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Other:

#### IX. PROPOSED ACTIVITY TO BE CONDUCTED

Surface mining Underground mining Quarrying Auger mining Hydraulic min Within-bank mining Solution mining Mineral storing Lime production Cement production Synthetic fuel production Alternative fuels operation Mineral dry processing (crushing & screening) Mineral wet production & manufacturing operations Mineral loading Chemical processing or leaching Construction related temporary borrow pits/areas Mineral transportationrailbargetruck  Preparation plant waste recovery Hydraulic mining, dredging, instream or between stream-bank m Grading, clearing, grubbing, etc. Pre-construction ponded water removal Excavation  Pre-mining logging or land clearing Waterbody relocation or other alteration Creek/stream Consite construction debris or equipment storage/disposal  Reclamation of disturbed areas Chemicals used in process or wastewater treatment (congulant, b)	iction
Synthetic fuel production ☐ Alternative fuels operation ☐ Mineral dry processing (crushing & screening) ☐ Mineral wet p ☐ Other beneficiation & manufacturing operations ☐ Mineral loading ☐ Chemical processing or leaching ☐ Construction related temporary borrow pits/areas ☐ Mineral transportationrailbargetruck ☐ Preparation plant waste recovery ☐ Hydraulic mining, dredging, instream or between stream-bank m ☐ Grading, clearing, grubbing, etc. ☐ Pre-construction ponded water removal ☐ Excavation ☐ Pre-mining logging or land clearing ☐ Waterbody relocation or other alteration ☐ Creek/stream ☐ Onsite construction debris or equipment storage/disposal ☐ Onsite mining debris or equipment storage/disposal	
<ul> <li>□ Other beneficiation &amp; manufacturing operations</li> <li>■ Construction related temporary borrow pits/areas</li> <li>■ Mineral loading</li> <li>□ Chemical processing or leaching</li> <li>■ Mineral transportationrailbargetruck</li> <li>□ Preparation plant waste recovery</li> <li>□ Hydraulic mining, dredging, instream or between stream-bank m</li> <li>□ Grading, clearing, grubbing, etc.</li> <li>□ Pre-construction ponded water removal</li> <li>□ Excavation</li> <li>□ Pre-mining logging or land clearing</li> <li>□ Waterbody relocation or other alteration</li> <li>□ Creek/stream</li> <li>□ Onsite construction debris or equipment storage/disposal</li> </ul>	reparation
<ul> <li>■ Construction related temporary borrow pits/areas</li> <li>■ Mineral transportationrailbargetruck</li> <li>□ Preparation plant waste recovery</li> <li>□ Hydraulic mining, dredging, instream or between stream-bank m</li> <li>□ Grading, clearing, grubbing, etc.</li> <li>□ Pre-construction ponded water removal</li> <li>□ Excavation</li> <li>□ Pre-mining togging or land clearing</li> <li>□ Waterbody relocation or other alteration</li> <li>□ Creek/stream</li> <li>□ Onsite construction debris or equipment storage/disposal</li> </ul>	
☐ Preparation plant waste recovery ☐ Hydraulic mining, dredging, instream or between stream-bank m ☐ Grading, clearing, grubbing, etc. ☐ Pre-construction ponded water removal ☐ Excavation ☐ Pre-mining logging or land clearing ☐ Waterbody relocation or other alteration ☐ Creek/stream ☐ Onsite construction debris or equipment storage/disposal ☐ Onsite mining debris or equipment storage/disposal	
☐ Grading, clearing, grubbing, etc. ☐ Pre-construction ponded water removal ☐ Pre-mining logging or land clearing ☐ Waterbody relocation or other alteration ☐ Creek/stream ☐ Onsite construction debris or equipment storage/disposal	
☐ Pre-mining logging or land clearing ☐ Waterbody relocation or other alteration ☐ Creek/stream ☐ Onsite construction debris or equipment storage/disposal ☐ Onsite mining debris or equipment storage/disposal	ining
Onsite construction debris or equipment storage/disposal Onsite mining debris or equipment storage/disposal	
	crossings
☐ Reclamation of disturbed areas ☐ Chemicals used in process or wastewater treatment (coagulant, b	
	ocide, etc.)
☐ Adjacent/associated asphalt/concrete plant(s) ☐ Low volume sewage treatment package plant	
Other:	
B. Primary SIC Code: NAICS Code: Description: Mining & Quarrying of Nonmetallic Mines	als (No Fuel)
Secondary SIC Code(s): NAICS Code: Description:	
Proposed ait shall be mined for bayyite clay	
C. Narrative Description of the Activity: Froposed pit Shall be fillined for badxie day	<del></del>
X. FUEL - CHEMICAL HANDLING, STORAGE & SPILL PREVENTION CONTROL & COUNTERMEASURES (SPCC) P	LAN
A. Will fuels, chemicals, compounds, or liquid waste be used or stored onsite?	No
B. If "Yes," identify the fuel, chemicals, compounds, or liquid waste and indicate the volume of each:	
Volume Contents Volume Contents Volume Contents	
gallonsgallonsgallons	
gallons gallons gallons	
	with ADEM
C. If "Yes," a detailed SPCC Plan with acceptable format and content, including diagrams, must be attached to application in accordance Admin. Code R. 335-6-612(r). Unless waived in writing by the Department on a programmatic, categorical, or individual compobasis, Material Safety Data Sheets (MSDS) for chemicals/compounds used or proposed to be used at the facility must be included Plan submittal.	und/chemical
Admin. Code R. 335-6-612(r). Unless waived in writing by the Department on a programmatic, categorical, or individual compobasis, Material Safety Data Sheets (MSDS) for chemicals/compounds used or proposed to be used at the facility must be included	und/chemical
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Admin. Code R. 335-6-6-12(r). Unless waived in writing by the Department on a programmatic, categorical, or individual compo basis, Material Safety Data Sheets (MSDS) for chemicals/compounds used or proposed to be used at the facility must be included Plan submittal.  XI. POLLUTION ABATEMENT & PREVENTION (PAP) PLAN  A. For non-coal mining facilities, a PAP Plan in accordance with ADEM Admin. Code r. 335-6-903 has been completed and is attached as part of this application.  B. For coal mining facilities, a detailed PAP Plan has been submitted to ASMC according to submittal procedures for ASMC regulated facilities.  (1) If "Yes" to Part XI.B., provide the date that the PAP Plan was submitted to ASMC:  (2) If "No" to Part XI.B., provide the anticipated date that the PAP Plan will be submitted to ASMC:	in the SPCC
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Admin. Code R. 335-6-6-12(r). Unless waived in writing by the Department on a programmatic, categorical, or individual compo basis, Material Safety Data Sheets (MSDS) for chemicals/compounds used or proposed to be used at the facility must be included Plan submittal.  XI. POLLUTION ABATEMENT & PREVENTION (PAP) PLAN  A. For non-coal mining facilities, a PAP Plan in accordance with ADEM Admin. Code r. 335-6-903 has been completed and is attached as part of this application.  B. For coal mining facilities, a detailed PAP Plan has been submitted to ASMC according to submittal procedures for ASMC regulated facilities.  (1) If "Yes" to Part XI.B., provide the date that the PAP Plan was submitted to ASMC:  (2) If "No" to Part XI.B., provide the anticipated date that the PAP Plan will be submitted to ASMC:	in the SPCC

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#### XIII. TOPOGRAPHIC MAP SUBMITTAL

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 is 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
- An outline of the facility

- (i) All surrounding unimproved/improved roads
- All existing and proposed disturbed areas (c)
- (j) High-tension power lines and railroad tracks

(d) Location of discharge areas

- Buildings and structures, including fuel/water tanks (k)
- (e) Proposed and existing discharge points
- (l) Contour lines, township-range-section lines
- (f) Perennial, intermittent, and ephemeral streams
- (m) Drainage patterns, swales, washes
- (g) Lakes, springs, water wells, wetlands
- (n) All drainage conveyance/treatment structures (ditches, berms, etc.)
- (h) All known facility dirt/improved access/haul roads (o) Any other pertinent or significant feature

#### XIV. DETAILED FACILITY MAP SUBMITTAL

Attach to this application a 1:500 scale or better, detailed auto-CAD 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 facility. The facility map(s) must include a caption indicating the name of the facility, name of the applicant, facility name, county, and township, range, & section(s) where the facility is located. Unless approved in advance by the Department, the facility or equivalent map(s), at a minimum, must show:

- (a) Information listed in Item XII (a) (o) above
- (e) Location of mining or pond cleanout waste storage/disposal areas
- (b) If noncoal, detailed, planned mining progression
- (n)Other information relevant to facility or operation
- (c) If noncoal, location of topsoil storage areas
- (g) Location of facility sign showing Permittee name, facility name, and NPDES Number
- (d) Location of ASMC bonded increments (if applicable)

#### XV. RECEIVING WATERS

List the requested permit action for each outfall (issue, reissue, add, delete, move, etc.), outfall designation including denoting "E" for existing and "P" for proposed outfalls, name of receiving water(s), whether or not the stream is included in a TMDL, latitude and longitude (to seconds) of location(s) of each discharge point, distance of receiving water from outfall in feet, number of disturbed acres, the number of drainage acres which will drain through each treatment system, outfall, or BMP, and if the outfall discharges to an ADEM listed CWA Section 303(d) waterbody segment at the time of application submittal.

Action	Outfail E/P	Receiving Water	Latitude	Longitude	Distance to Rec. Water	Disturbed Acres	Drainage Acres	ADEM WUC	303(d) Segment (Y/N)	TMDL Segment
Reissue	001E	UT to Billy Branch Creek	3 701944	-85.233611	50'	8	8	S, F&W	N	N/A
Reissue	002E	UT to Billy Branch Creek	3 701389	-85.233056	50'	14	14	S, F&W	N	N/A
						<u>.</u>				
										<u> </u>

\*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation: (1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.); (2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML. etc. should be reported as available); (3) Requested interim limitations, if applicable; (4) Date of final compliance with the TMDL limitations; and (5) Any other additional information available to support the requested compliance schedule.

#### XVI. DISCHARGE CHARACTERIZATION

Yes. 2C acate or o coal No,  B. The apaverage da of dischar	A Form 2C, EP, pursuant to 4 and certifies the gorical, or indi ther industrial products are n the applicant d  poplicant is requ aily discharge ( ge(s) in degree Total Mangar	O CFR 122 at the open vidual con operations of mined a loes not re- tired to su flow rate is as centigra-	2.21, the ating facinpound/cs or waste nor stored quest a waste pply the n cfs and de (C), a	applicant i lity will di hernical ba waters, in lonsite. aiver and a following gpd, frequerage pH	requesti schargasis that cludin a comp information of in state	ts a we ge treat the chern g but the later I mation of disondered	aiver for ted storm mical/cor not limit EPA Forn separate charge in units, as	cornwar mpo ed t	npletion of the control of the contr	nless vives an cemen or 2D or E y and c	vaived in e not use of produc ), and/or outfall, days per	writing by the distribution, synfaction, synfaction and that the modified EF	he Departmenere are no properations, of A Form 2C in attach extrange summer	nt on a progra ocess, manuf etc and that s attached. . sheets. List and winter te	ammatic. acturing. coal and  expected mperature
Outfall E/P	Information Source - # of Samples	Flow cfs	Flow gpd	Freque hours/c			guency /month		om/Win emp, °C	pH s.u.	BOD lbs/da		Tot Fe lbs/day	Tot Mn lbs/day	Tot Al lbs/day
001E	1	9.6	0.069	Precip. D	niven	Precip	. Driven		26	8	5	50	0	0	0.5
002E	1	12.0	0.086	Precip. D	riven	Precir	. Driven		26	8	5	50	0	0	0.5
list expect	oplicant is requed average dai, & C that are i	ly discharq not referen	ge in pou ced in Pa	nds per da	y of ar	ıy oth	er pollut	ant(	s) listed in	: EPA	Form 20	C, Item V - i	intake And E	Muent Chara	cteristics.
Outfall	Reason Believed	Informa Source -													
E/P	Present	Sampl		bs/day	lbs/c	iay	lbs/da	y	lbs/day	1	bs/day	lbs/day	lbs/day	ibs/day	lbs/day
None		<u>_</u>								1			1		
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#### XVII. DISCHARGE STRUCTURE DESCRIPTION & POLLUTANT SOURCE

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.

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	Other
001E	Plastic Pipe	6 & 9	х	X	N/A	N/A	N/A	N/A
002E	Plastic Pipe	6&9	х	х	N/A	N/A	N/A	N/A
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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:

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#### XVIII. PROPOSED NEW OR INCREASED DISCHARGES

ì	Pursuant to ADEM Admin. Code Chapter 335-6-1012(9), responses to the following questions must be provided by the applicant requesting IPDES permit coverage for new or expanded discharges of pollutant(s) to Tier 2 waters (except discharges eligible for coverage under general termits). 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 vaters are located.
	Yes. New/increased discharges of pollutant(s) or discharge locations to Tier 2 waters are proposed.
-	No. New/increased discharges of pollutants(s) or discharge locations to Tier 2 waters are not proposed.
	f "Yes," complete Items I through 6 of this Part (XVII.B.), ADEM Form 311-Alternative Analysis, and either ADEM Form 312 or ADEM Form 13-Calculation of Total Annualized Project Costs (Public-Section or Private-Sector, whichever is applicable). ADEM Form 312 or ADEM Form 13, whichever, is applicable, should be completed for each technically feasible alternative evaluated on ADEM Form 311. ADEM Forms of a found on the Department's website at www.adem.alabama.gov/DeptForms. Attach additional sheets/documentation and supporting formation as needed.
	What environmental or public health problem will the discharge be correcting?  NONE. THERE ARE CURRENTLY NO ENVIRONMENTAL OR PUBLIC HEALTH PROBLEMS WITH THE CONSTRUCTION SITE.
	2) How much will the discharger be increasing employment (at its existing facility or as a result of locating a new facility)?
	THE PERMITTEE SHALL EMPLOY 3 ADDITIONAL EMPLOYEES FOR 1 YEAR WITH THIS PROJECT.
	3) How much reduction in employment will the discharger be avoiding?
	3) How much reduction in employment will the discharger be avoiding?  B EMPLOYEES WILL BE TERMINATED IS THIS PROJECT DOES NOT CONTINUE.
	3 EMPLOYEES WILL BE TERMINATED IS THIS PROJECT DOES NOT CONTINUE.  4) How much additional state or local taxes will the discharger be paying?
(	3 EMPLOYEES WILL BE TERMINATED IS THIS PROJECT DOES NOT CONTINUE.  4) How much additional state or local taxes will the discharger be paying?
- (	B EMPLOYEES WILL BE TERMINATED IS THIS PROJECT DOES NOT CONTINUE.  4) How much additional state or local taxes will the discharger be paying?  THIS PROJECT WILL PRODUCE AN ADDITIONAL \$4,200 +/- IN STATE TAXES. THERE IS CURRENTLY NO LOCAL TAXES.  5) What public service to the community will the discharger be providing?
- (	SEMPLOYEES WILL BE TERMINATED IS THIS PROJECT DOES NOT CONTINUE.  4) How much additional state or local taxes will the discharger be paying?  1) How much additional state or local taxes will the discharger be paying?  1) HIS PROJECT WILL PRODUCE AN ADDITIONAL \$4,200 +/- IN STATE TAXES. THERE IS CURRENTLY NO LOCAL TAXES.  5) What public service to the community will the discharger be providing?  1) HE MATERIAL OBTAINED FROM THIS SITE WILL PROVIDE THE LOCAL BUSINESS WITH THE RAW MATERIALS NEEDED TO PRODUCE
	SEMPLOYEES WILL BE TERMINATED IS THIS PROJECT DOES NOT CONTINUE.  4) How much additional state or local taxes will the discharger be paying?  1) How project will produce an additional \$4,200 +/- IN STATE TAXES. THERE IS CURRENTLY NO LOCAL TAXES.  5) What public service to the community will the discharger be providing?  THE MATERIAL OBTAINED FROM THIS SITE WILL PROVIDE THE LOCAL BUSINESS WITH THE RAW MATERIALS NEEDED TO PRODUCE

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#### XIX. POLLUTION ABATEMENT & PREVENTION (PAP) PLAN SUMMARY (must be completed for all outfalls)

Y	N	N/A	Outfall(s): 001E, 002E
Х			Runoff from all areas of disturbance is controlled
Х			Drainage from pit area, stockpiles, and spoil areas directed to a sedimentation pond
Х			Sedimentation basin at least 0.25 acre/feet for every acre of disturbed drainage
Х			Sedimentation basin cleaned out when sediment accumulation is 60% of design capacity
Х			Trees, boulders, and other obstructions removed from pond during initial construction
Х			Width of top of dam greater than 12'
Х			Side slopes of dam no steeper than 3:1
х			Cutoff trench at least 8' wide
х			Side slopes of cutoff trench no less than 1:1
х			Cutoff trench located along the centerline of the dam
Х			Cutoff trench extends at least 2' into bedrock or impervious soil
Х			Cutoff trench filled with impervious material
Х			Embankments and cutoff trench 95% compaction standard proctor ASTM
Х			Embankment free of roots, tree debris, stones >6" diameter, etc.
Х			Embankment constructed in lifts no greater than 12"
Х			Spillpipe sized to carry peak flow from a one year storm event
х			Spillpipe will not chemically react with effluent
х			Subsurface withdrawal
Х			Anti-seep collars extend radially at least 2' from each joint in spillpipe
Х			Splashpad at the end of the spillpipe
Х			Emergency Spillway sized for peak flow from 25-yr 24-hr event if discharge not into PWS classified stream
		X	Emergency spillway sized for peak flow from 50-yr 24-hr event if discharge is into PWS classified stream
Х		-	Emergency overflow at least 20' long
X			Side slopes of emergency spillway no steeper than 2:1
Х			Emergency spillway lined with riprap or concrete
Х			Minimum of 1.5' of freeboard between normal overflow and emergency overflow
Х			Minimum of 1.5' of freeboard between max, design flow of emergency spillway and top of dam
X			All emergency overflows are sized to handle entire drainage area for ponds in series
х			Dam stabilized with permanent vegetation
Х			Sustained grade of haul road <10%
X			Maximum grade of haul road <15% for no more than 300'
х			Outer slopes of haul road no steeper than 2:1
Х			Outer slopes of hauf road vegetated or otherwise stabilized
		Х	Detail drawings supplied for all stream crossings
Х			Short-Term Stabilization/Grading And Temporary Vegetative Cover Plans
Х			Long-Term Stabilization/Grading And Permanent Reclamation or Water Quality Remediation Plans
IDEN	TIF	Y AND	PROVIDE DETAILED EXPLANATION FOR ANY "N" OR "N/A" RESPONSE(s):
Sur	fac	e run	off does not discharge into a PWS. There are no new stream crossings proposed. The
			sings existing prior to this land becoming a mining pit.
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#### XX. POLLUTION ABATEMENT & PREVENTION (PAP) PLAN REVIEW CHECKLIST

			1
Y	N	N/A	DC Controlled Linear #
X	L		PE Seal with License #
X			Name and Address of Operator
X	L	L	Legal Description of Facility
			General Information:
X			Name of Company
Х			Number of Employees
X			Products to be Mined
Х			Hours of Operation
Х			Water Supply and Disposition
			Topographic Map:
Х			Mine Location
		X	Location of Prep Plant
Х			Location of Treatment Basins
Х			Location of Discharge Points
Х			Location of Adjacent Streams
			1"- 500' or Equivalent Facility Map:
Х			Drainage Patterns
Х			Mining Details
х			All Roads, Structures Detailed
X			All Treatment Structures Detailed
			Detailed Design Diagrams:
Х			Plan Views
×			Cross-section Views
×			Method of Diverting Runoff to Treatment Basins
			Narrative of Operations:
X			Raw Materials Defined
X			Processes Defined
X			Products Defined
ىت			Schematic Diagram:
х			Points of Waste Origin
x			Collection System
×		<u> </u>	Disposal System
			Post Treatment Quantity and Quality of Effluent:
×			Flow
L <sub>X</sub>			Suspended Solids
x	<b> </b>		Iron Concentration
÷			pH
<u></u>			) •
		,.	Description of Waste Treatment Facility:
$\vdash$		X	Pre-Treatment Measures
<del> </del>		Х	Recovery System  Executed Life of Treatment Resign
×			Expected Life of Treatment Basin
X			Schedule of Cleaning and/or abandonment
<del>                                     </del>	····		Other:
×		<u> </u>	Precipitation/Volume Calculations/Diagram Attached
X			BMP Plan for Haul Roads
×			Measures for Minimizing Impacts to Adjacent Stream i.e., Buffer Strips, Berms, etc.
×			Methods for Minimizing Nonpoint Source Discharges
X			Facility Closure Plans
		Х	PE Rationale(s) For Alternate Standards, Designs or Plans
			DO OVER DE PROPERTO DE LA DESTADO DE LA DESTADOR

	ILED EXPLANATION FOR ANY "N" OR "N/A" RESPONSE(s):
lo proposed prepara	ation plant. No pre-treatment measures or recovery system
pplies to this projec	t. No alternatives applied.

#### XXL INFORMATION

Contact the Department <u>prior</u> 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 NPDES Permit prior to commencement of any land disturbance. Such 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; and
- (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. The completed form, supporting documentation, and the appropriate fees must be submitted to:

Water Division

Alabama Department of Environmental Management
Post Office Box 301463

Montgomery, Alabama 36130-1463
Phone: (334) 271-7823
Fax: (334) 279-3051
h2omail@adem.alabama.gov
www.adem.alabama.gov

#### XXII. PROFESSIONAL ENGINEER (PE) CERTIFICATION

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

Name and Title (type or print) Christopher M. Rogers  Signature Date Signed	Address 706 12th Street, Phenix City, AL 36867	PE Registration # AL 30447
	Name and Title to print) Christopher M. Rogers	

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#### XXIII. RESPONSIBLE OFFICIAL SIGNATURE\*

This application must be signed 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."

Name (type or print) Jim Bevill	Official Title Lands & Mines Manager
Signature Blittle	Date Signed 3/9//8

\*335-6-6-.09 Signatories to Permit Applications and Reports.

- (1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
  - (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
  - (b) In the case of a partnership, by a general partner:
  - (c) In the case of a sole proprietorship, by the proprietor: or
  - (d) In the case of a municipal, state, federal, or other public entity by either a principal executive officer, or ranking elected official.

#### **Eufaula Mine Permits**

				Dept of Labor				
Property	County	<u>Status</u>	File#	Permit #	NPDES #	<u>Acres</u>	Bond Payment	Effective Date
Carbo-Bell	Henry	Active	37-Carbo-1	14038	Al0082171	24.95	\$62,625.00	9/30/2013
Carbo-Carter	Henry	Active	37-Carbo-2	15002	Al0082368	33.98	\$85,200.00	6/5/2014
Carbo-Universal	Henry	Active	37-Carbo-3	14716	AL0082708	29.42	\$73,800.00	6/30/2015
Carbo-Sellers	Henry	Active	37-Carbo-4	15092	AL0082724	15.1	\$37,750.00	9/21/2016
Carbo-Holsombeck	Henry	Active/No mining	N/A	N/A	AL0082715	N/A	N/A	
Carbo-Roland	Henry	Active	N/A	N/A	AL0083411	N/A	N/A	
				14542, 15251, 14106,				
Carbo-Grier	Barbour	Active	6-Carbo-3	13824, 14166	AL0082104	19.51	\$49,042.50	3/11/2013
Carbo-Vickers	Barbour	Active	6-Carbo-5	15093	AL0082783	15.1	\$37,750.00	9/21/2016
Carbo-Wilson	Barbour	Active	6-Carbo-4	14463	AL0082546	18.01	<b>\$</b> 45,2 <b>87</b> .50	12/1/2016
Carbo-Jimmerson	Barbour	Released	6-Carbo-2	14425, 13265	AL0080128	15		
Carbo-Dixon/Vickers	Barbour	Release <b>d</b>			Al0079570	12	\$37,750.00	

#### POLLUTION ABATEMENT/PREVENTION (PAP) PLAN

**FOR** 

#### **CARBO-BELL BAUXITE PIT**

**OF** 

CARBO CERAMICS, INC.

March 30, 2018

BARRETT-SIMPSON, INC.

706 12<sup>TH</sup> STREET Phenix City, AL 36867 (334) 297-2423

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APPENDIX B – SITE LAYOUT & SURFACE WATER FLOW DIAGRAM

APPENDIX C – DETAILED FACILITY MAP

APPENDIX D – SCHEMATIC FLOW DIAGRAM

APPENDIX E – RUNOFF HYDROGRAPHS

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#### I. INTRODUCTION:

This Pollution Abatement/Prevention (PAP) plan is a required part of an application for a NPDES Permit. The Carbo-Bell Bauxite Pit, will be located in Section 4, T-8-N, R-28-E, Henry County, Alabama. This application is being prepared in accordance with the rules and regulations of the Alabama Department of Environmental Management (ADEM). A thorough field review of the proposed site has been conducted prior to the compilation and submittal of this plan. The existing conditions and geology of the proposed site has been evaluated to determine the potential for bauxite mining, to calculate runoff coefficients, and determine the sediment control measures required.

The PAP plan is presented in two parts, which includes a narrative description of the operation and treatment requirements, drainage maps, design plans, and discharge calculations. The narrative description is intended to address the format as outlined by the ADEM Admin. Code R. 335-6-9, as well as present the basis for the designs as further detailed in the PAP Plan. Drawings as presented in the PAP Plan were derived from rules and regulations of the ADEM Admin. Code R. 335-6-9, Appendix "A" and Appendix "B", as well as from other generally accepted design data sources primarily from the U.S. Department of Agriculture's Natural Resource Conservation Service.

#### II. OPERATOR

The operator of this pit is CARBO Ceramics, Inc. Their business address is:

36 Arch Drive Eufaula, AL 36027

The proposed pit will lie within a property owned by James and William Bell & Heirs. The area that is to be disturbed is more particularly described as follows:

Commence at the southwest corner of the northwest ¼ of the northeast ¼ of Section 4, Township 8 North, Range 28 East, run thence North 57 degrees 23 minutes 50 seconds East a distance of 193.77 feet to a rebar with cap which shall be known as the **POINT OF BEGINNING**;

run thence North 00 degrees 00 minutes 39 seconds West a distance of 461.65 feet to a rebar with cap; run thence North 65 degrees 05 minutes 22 seconds East a distance of 466.66 feet to a rebar with cap; run thence North 37 degrees 32 minutes 12 seconds East a distance of 441.15 feet to a rebar with cap; run thence North 89 degrees 57 minutes 13 seconds East a distance of 620.22 feet to a rebar with cap; run thence South 00 degrees 06 minutes 11 seconds East a distance of 1008.36 feet to a rebar with cap; run thence South 89 degrees 59 minutes 34 seconds West a distance of 1313.96 feet to the **POINT OF BEGINNING** of the herein described parcel of land.

Said parcel contains 24.95 acres more or less and lies within Section 4, Township 8 North, Range 28 East, Henry County, Alabama.

STATE OF ALABAMA HENRY COUNTY

#### III. GENERAL INFORMATION

This facility will operate five days a week from 9:00 a.m. to 5:00 p.m., and will employ approximately three people. The product to be mined is bauxite clay. There will be no mining or processing of coal.

#### IV. TOPOGRAPHIC MAP

A site drainage map indicating topography, areas of excavation, proposed mineral stockpile areas, proposed topsoil stockpile areas, drainage diversionary structures, treatment ponds, and discharge points is provided as part of this plan.

#### V. METHOD OF DIVERTING SURFACE WATER RUNOFF

The site drainage map shows topography and all diversionary structures. The treatment pond is located using natural topography to minimize the construction of diversionary structures. Drainage from all spoil, stockpile areas, excavation areas, loading areas, equipment storage areas, and any other areas of disturbance related to the mining site will be directed to a permitted treatment structure prior to discharging. Any minor areas of disturbance that drainage cannot feasibly be routed to a treatment pond will be graded and will be vegetated with annual and perennial grasses and will have effective Best Management Practices (BMP's) for the control of non-point source pollution fully implemented and maintained at all times.

#### VI. RAW MATERIALS, PROCESSES AND PRODUCTS

The material that will be mined is bauxite clay. There will be no washing or screening of any of the raw materials at this site.

#### VII. SCHEMATIC DIAGRAM

A schematic diagram showing each process that creates wastewater, the wastewater collection system has been provided as part of this PAP plan.

#### VIII. POST TREATMENT QUANTITY AND QUALITY OF EFFLUENT

Runoff calculations have been provided as part of this plan to determine flow and to size the discharge structures. The treatment ponds have been designed to allow adequate settling times for the expected particles sizes to reduce suspended solids concentrations to meet effluent limits. The treatment ponds are designed to provide adequate oxidation for the removal of iron and other metals to a concentration within the permit requirements. The pH of the effluent will be between 6.0 su and 8.5 su or as allowed by the permit.

#### IX. WASTE TREATMENT FACILITIES

The primary method of treatment for the removal of expected pollutants will be settling. The proposed sediment ponds have adequate capacity to detain all surface runoff for a 24-hour 25-year storm event. The sediment ponds will allow sedimentation to ensure that silt does not leave the site. All aspects of the proposed sediment pond shall be in accordance with the requirements of the PAP Plan checklist.

The sediment ponds at a minimum will provide 0.25 acre-feet of storage for every acre of disturbed land draining to the pond. All trees, brush, boulders, and other objects that would impair compaction will be removed from the pond prior to construction. The minimum width at the top of the dam will be at least 12 feet. The side slopes of the dam will be no steeper than 3:1. At least 80% coverage of annual and perennial grasses will be established on the embankments of the dam. A cutoff trench will be constructed along the center of the dam and will extend at least 2 feet into the bedrock. The cutoff trench will be at least 8 feet wide, the side slopes will no less than 1:1, and it will be filled with impervious material compacted to 95% compaction standard proctor ASTM. The dam will also be compacted 95% compaction standard proctor ASTM. The embankments will be constructed in lifts less than 12 inches.

The spill-pipe is sized to carry peak flow from the 25-year, 24 hour storm event, and are constructed of material that will not chemically react with the effluent. Anti-seep collars will extend radially at least 2 feet from each joint in the spill-pipes. A splash pad constructed of riprap will be installed at the discharge pipe to prevent erosion from the discharge.

The dam will be equipped with an emergency spillway sized for the peak flow from 100-year, 24-hour storm event. The emergency overflow will be at least 20 feet long, lined with riprap, and the side slopes will be no steeper than 2:1. There will be at least 1.5 feet of freeboard between the normal overflow and the emergency overflow, and there will be

at least 1.5 feet of freeboard between the maximum design flow of the emergency spillway and the top of the dam.

The treatment pond shall be maintained until mining has ceased, the site has been completely reclaimed, and the operator has received written permission from ADEM to remove the treatment ponds. Accumulated sediments/sludge in the treatment ponds will be removed when the ponds have lost 60% of their liquid storage capacity due to sedimentation.

#### X. SEDIMENT CONTROL FOR HAUL ROADS

The access and haul roads will have a sustained grade of no greater than 10%, with a maximum grade no greater 15% for 300 feet. The outer slope will be no steeper than 2:1 and will maintain 80% coverage of annual and perennial grasses. Effective BMP's will be installed and maintained at all times. The roads will be crowned and properly ditched. Also, water bars and wing ditches will be installed where appropriate. Typical designs for these structures are included as part of this plan. There will be no stream crossing at this facility. If it becomes necessary to construct a stream crossing the certified design plans will be submitted to ADEM for their review.

#### XI. LOCATION OF ALL STREAMS ADJACENT TO MINING AREA

The topographic map submitted as part of this plan shows all water bodies. The mining operation will provide a 25-foot minimum buffer zone around streams. If a buffer zone cannot be maintained ADEM will be contacted regarding construction of a designed berm to protect the stream. The haul road that will be utilized for this pit is an existing logging road with existing stream crossings. There will be no new stream crossings for this permit.

#### XII. NON-POINT SOURCE POLLUTION

By virtue of the fact that all disturbed areas are graded such that the drainage will carry sediment to the ponds, non-point sources of pollution are not expected for this project.

#### XIII. PUBLIC WATER SUPPLY IMPOUNDMENT

This facility will not discharge to a stream segment classified as a Public Water Supply.

#### XIV. SPILL PREVENTION CONTROL & COUNTERMEASURES PLAN

Fuel will not be stored on-site; therefore, a SPCC plan has not been developed.

#### XV. RUNOFF CALCULATIONS

Runoff calculations where calculated for the sediment basin on the site. All numbers are based on a 25-year, 24-hour storm event and calculated using the Modified Rational Method. All variables and conclusions can be seen in the table below:

Pond #	Area, ac	Length, ft	Slope, %	Tc, min	Flow, cfs	Req'd Storage, cu. ft.
1	5.4	1000	9	10	9.68	21,967
2	10.8	1150	9	10	12.01	61,959

Pond #1

Required Stormwater Storage:

21,967 cubic feet

Available Stormwater Storage:

37,750 cubic feet

Pond #2

Required Stormwater Storage:

61,959 cubic feet

Available Stormwater Storage:

124,000 cubic feet

#### XVI. RECLAMATION PROCEDURE

As mining is completed in an area, the area shall be dressed to eliminate any piles of dirt, or low areas which will hold water, with terraces to keep erosion to a minimum, and grassed. A sump shall be maintained at the low end of all reclamation work until a satisfactory stand of grass is obtained.

During construction and reclamation, erosion control measures such as hay bales, riprap, cleared trees, and other acceptable methods will be utilized as needed to minimize erosion.

#### XVII. BMP TYPICALS (attached)

Pipe and Spillway Detail
Typical section for Constructed Dam
Swale Detail
Outlet Protection Detail
Flow Schematic

XVIII. CHEMICALS/COMPOUNDS AND POTENTIAL TOXICITY SOURCES

No chemicals/compounds shall be used on this project which would contaminate any of the existing creeks.

#### XIX. EPA FORM 2D and/or EPA FORM 2C

EPA Form 2C & 2D were not completed because only stormwater runoff will be discharged from the proposed facility.

## XX. COPY OF ASMC REQUIRED WATER QUALITY RELATED DATA AND INFORMATION

No information pertaining to the ASMC is attached or included because this project is only for non-coal mining operations. ASMC regulates coal mining operations.

#### **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 information submitted. Based on my inquiry of the person or persons who manage the system, of 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 willful violations."

Prepared by:

Christopher M. Rogers, PE #30447

Barrett-Simpson, Inc.

3/30/18

Date

XXI. DESIGN DATA

001P

DISTURBED AREA = 5.4 AC. X 1/4 AC. FT/AC. =
THEREFORE: 1.35 AC. FT. POND REQ'D (58,806 CUBIC FEET)

DRAINAGE AREA – 5.4 AC.

THEREFORE, REQ'D: 1 - 15" PIPE

1 - 10' x 1.0' SPILLWAY

POND VOLUME REQUIRED: 1.35 AC. FT.

POND VOLUME PROVIDED: 1.40 AC. FT.

#### <u>002P</u>

DISTURBED AREA = 10.8 AC. X 1/4 AC. FT/AC. =

THEREFORE: 2.7 AC. FT. POND REQ'D (117,612 CUBIC FEET)

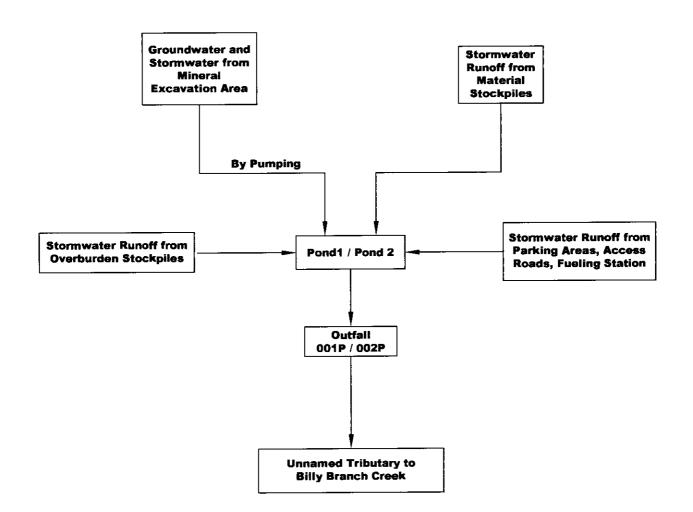
DRAINAGE AREA – 10.8 AC.

THEREFORE, REQ'D: 1 - 18" PIPE

1 - 10' x 1.0' SPILLWAY

POND VOLUME REQUIRED: 2.70 AC. FT.

POND VOLUME PROVIDED: 2.85 AC. FT.





## BARRETT-SIMPSON, INC. Civil Engineers & Land Surveyors

706 A 12th STREET, PHENIX CITY, AL 36868 (PH 334-297-2423, FAX 334-297-2448) 121 W. BROAD STREET, EUFAULA, AL 36027 (PH 334-687-4257, FAX 334-687-8829) 1685D E. UNIVERSITY DRIVE, AUBURN, AL 36830 (PH 334-887-2315, FAX 334-887-2095

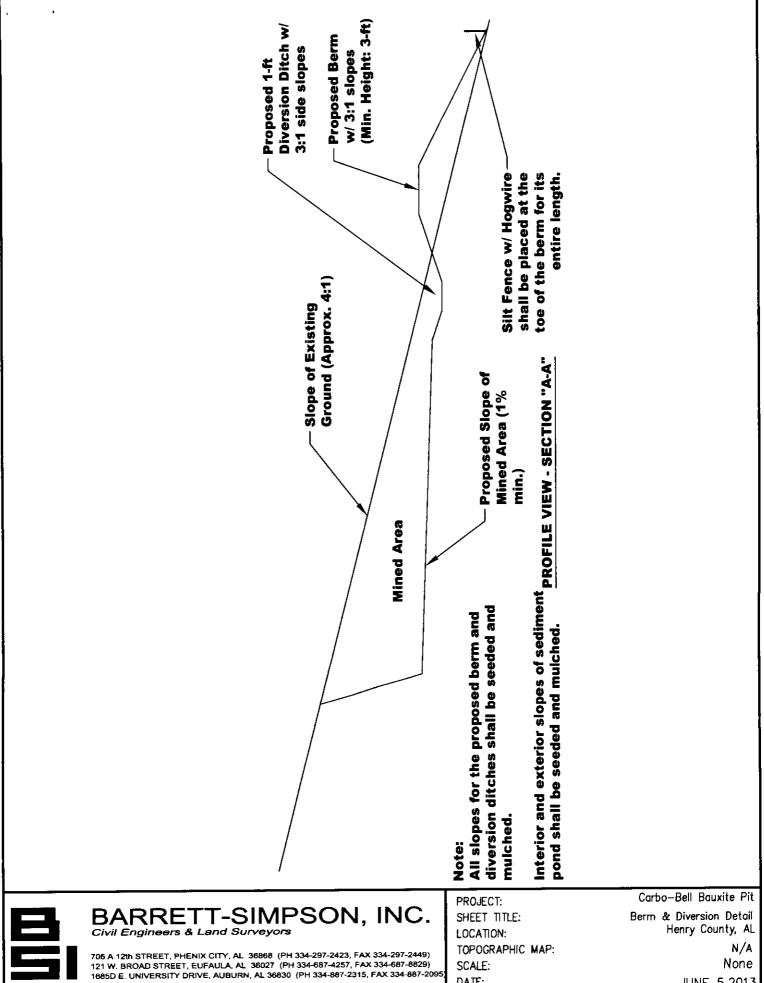
PROJECT: SHEET TITLE: LOCATION:

TOPOGRAPHIC MAP:

SCALE: DATE:

Carbo-Bell Bauxite Pit Schemotic Diagram Henry County, AL N/A

> None JUNE 5, 2013



SCALE: DATE:

JUNE 5,2013

DETENTION EMERGENCY SPILLWAY DETAI PLAN VIEW SECTION A-A Geotextile **5.. FINEK THICKNESS** ..ZI

706 A 12th STREET, PHENIX CITY, AL 36868 (PH 334-297-2423, FAX 334-297-2449) 121 W. BROAD STREET, EUFAULA, AL 36027 (PH 334-887-4257, FAX 334-687-8829)

1685D E. UNIVERSITY DRIVE, AUBURN, AL 36830 (PH 334-887-2315, FAX 334-887-2095)

PROJECT:

SCALE:

DATE:

SHEET TITLE: LOCATION:

TOPOGRAPHIC MAP:

Spillway Detail is applicable to Pond 1 & Pond 2.

Spillway bottom slope shall not exceed 3%.

All rip-rap shall be Class I

NOT TO SCALE

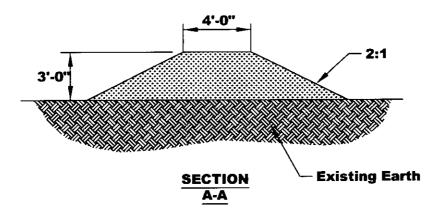
Carbo-Bell Bauxite Pit

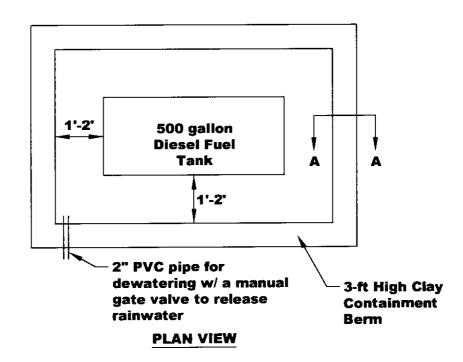
N/A

None

JUNE 5, 2013

Emergency Spillway Detail Henry County, AL





### CONTAINMENT BASIN FOR 500-GAL DIESEL FUEL TANK

NOT TO SCALE



## BARRETT-SIMPSON, INC. Civil Engineers & Land Surveyors

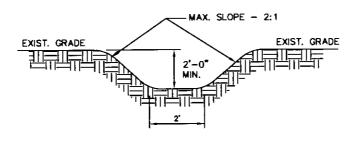
706 A 12th STREET, PHENIX CITY, AL 36868 (PH 334-297-2423, FAX 334-297-2449) 121 W. BROAD STREET, EUFAULA, AL 36027 (PH 334-687-4257, FAX 334-687-8829) 1685D E. UNIVERSITY DRIVE, AUBURN, AL 36830 (PH 334-887-2315, FAX 334-887-2095) PROJECT: SHEET TITLE:

LOCATION: TOPOGRAPHIC MAP: SCALE:

DATE:

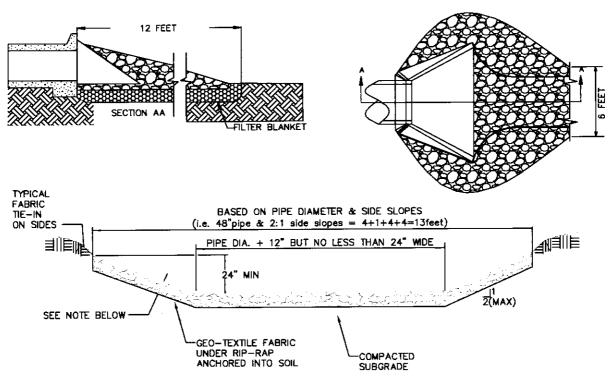
Carbo-Bell Bauxite Pit Fuel Containment Diagram Henry County, AL

> None JUNE 5, 2013



## GRASSED SWALE & DIVERSION

NOT TO SCALE



STONE SIZE SHALL BE AN AVERAGE SIZE OF 9". APRON THICKNESS SHALL BE A MINIMUM OF 15 INCHES.

#### INSTALLATION INSTRUCTIONS

- 1. Excavate trench area by depth required for outlet.
- 2. Get excavation work inspected and approved engineer.
- 3. Install geo-textile fabric and tie into soil as required using trenches and/or staples.
- 4. Get fabric installation approved by engineer.
- 5. Install riprap in size and quantities as indicated on Sheet EC-4.

#### ET PROTECTION DETAIL

NOT TO SCALE



## BARRETT-SIMPSON, INC. Civil Engineers & Land Surveyors

706 A 12th STREET, PHENIX CITY, AL 36868 (PH 334-297-2423, FAX 334-297-2449) 121 W. BROAD STREET, EUFAULA, AL 36027 (PH 334-687-4257, FAX 334-687-8829) 1665D E. UNIVERSITY DRIVE, AUBURN, AL 36830 (PH 334-887-2315, FAX 334-887-2095)

APPLICANT: FACILITY NAME: Section/Township/Range:

CARBO Ceramics, Inc. Carbo-Bell Bauxite Pit Sec. 4, T-8-N, R-28-E

SHEET TITLE: LOCATION:

DATE:

Misc. Erosion Control Details Henry County, AL

TOPOGRAPHIC MAP: SCALE:

N/A JUNE 5, 2013

N/A



# $\Box$ Ĭ M P Ś

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PROJECT:

Carbo-Bell Bauxite Pil

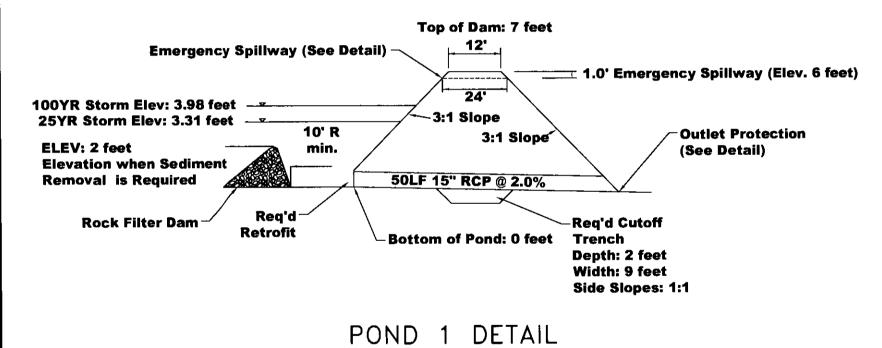
36868 (PH 334-297-2423, FAX 334-297-2449) 36027 (PH 334-687-4257, FAX 334-687-8829)

TOPOGRAPHIC MAP: SCALE: DATE: SHEET TITLE: LOCATION:

Pond \_\_ | JUNE Detail

#### NOTES:

- Dam shall be constructed of a well compacted clay material.
- Bottom slope of pond shall not exceed 10%.
- 3. Pond dam & cutoff trench shall be compacted to 95% Standard Proctor ASTM.
- 4. Embankment shall be free of roots, tree debris, stones >6", etc.
- Embankment shall be constructed in lifts no greater than 12".
- 6. All portions of sediment pond and dam shall be seeded and mulched so that permanent vegetation is obtained.
- 7. Clean sediment out at elevation shown during construction.
- 8. An anti-seep collar that be installed to extend at least 24" from the side of the drain pipe.



NOT TO SCALE

NOTE:

THIS POND SHALL BE 0.3 **ACRES IN SURFACE AREA AND 7** FEET DEEP TO OBTAIN THE **VOLUME SHOWN.** 



# BARRETT-SIMPSO

PROJECT:
SHEET TITLE:
LOCATION:
TOPOGRAPHIC MAP:
SCALE:
DATE:

Carbo-Bell Bauxite Pit Pond 2 — Dam Detall Henry County, Al

JUNE

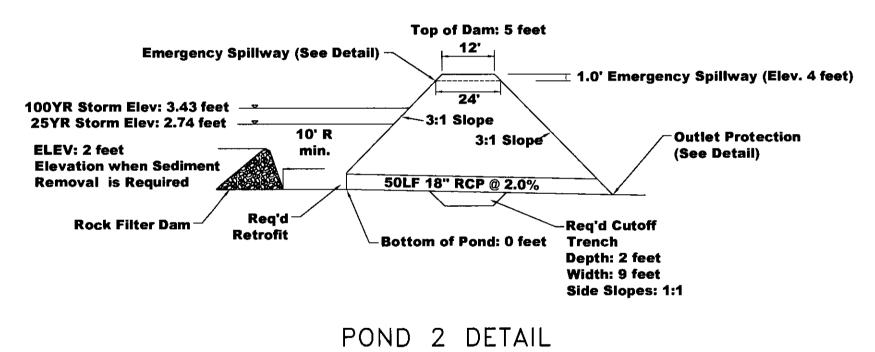
Ĉυ

2013

None

#### NOTES:

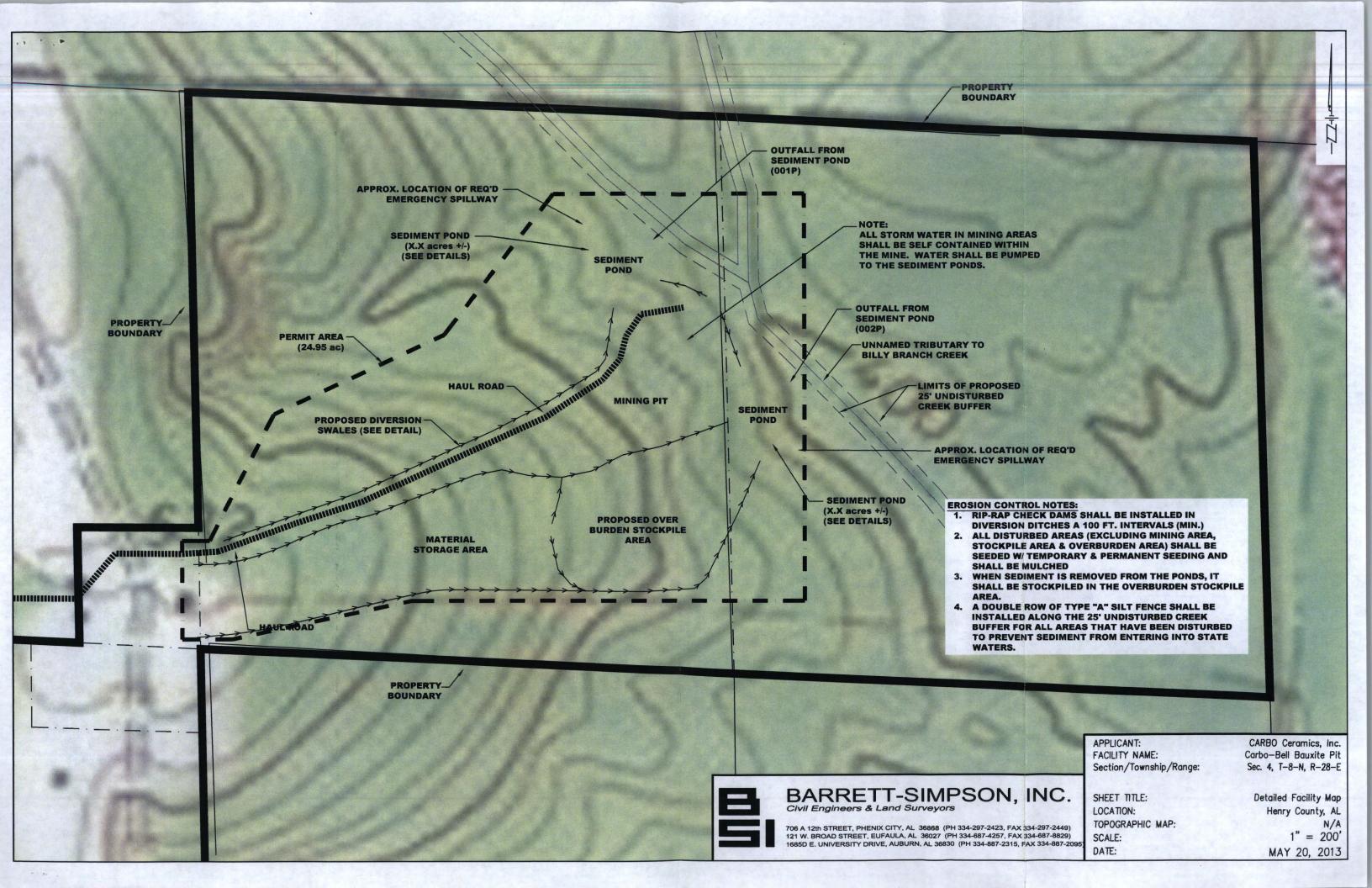
- 1. Dam shall be constructed of a well compacted clay material.
- 2. Bottom slope of pond shall not exceed 10%.
- 3. Pond dam & cutoff trench shall be compacted to 95% Standard Proctor ASTM.
- 4. Embankment shall be free of roots, tree debris, stones >6", etc.
- 5. Embankment shall be constructed in lifts no greater than 12".
- 6. All portions of sediment pond and dam shall be seeded and mulched so that permanent vegetation is obtained.
- 7. Clean sediment out at elevation shown during construction.
- 8. An anti-seep collar that be installed to extend at least 24" from the side of the drain pipe.

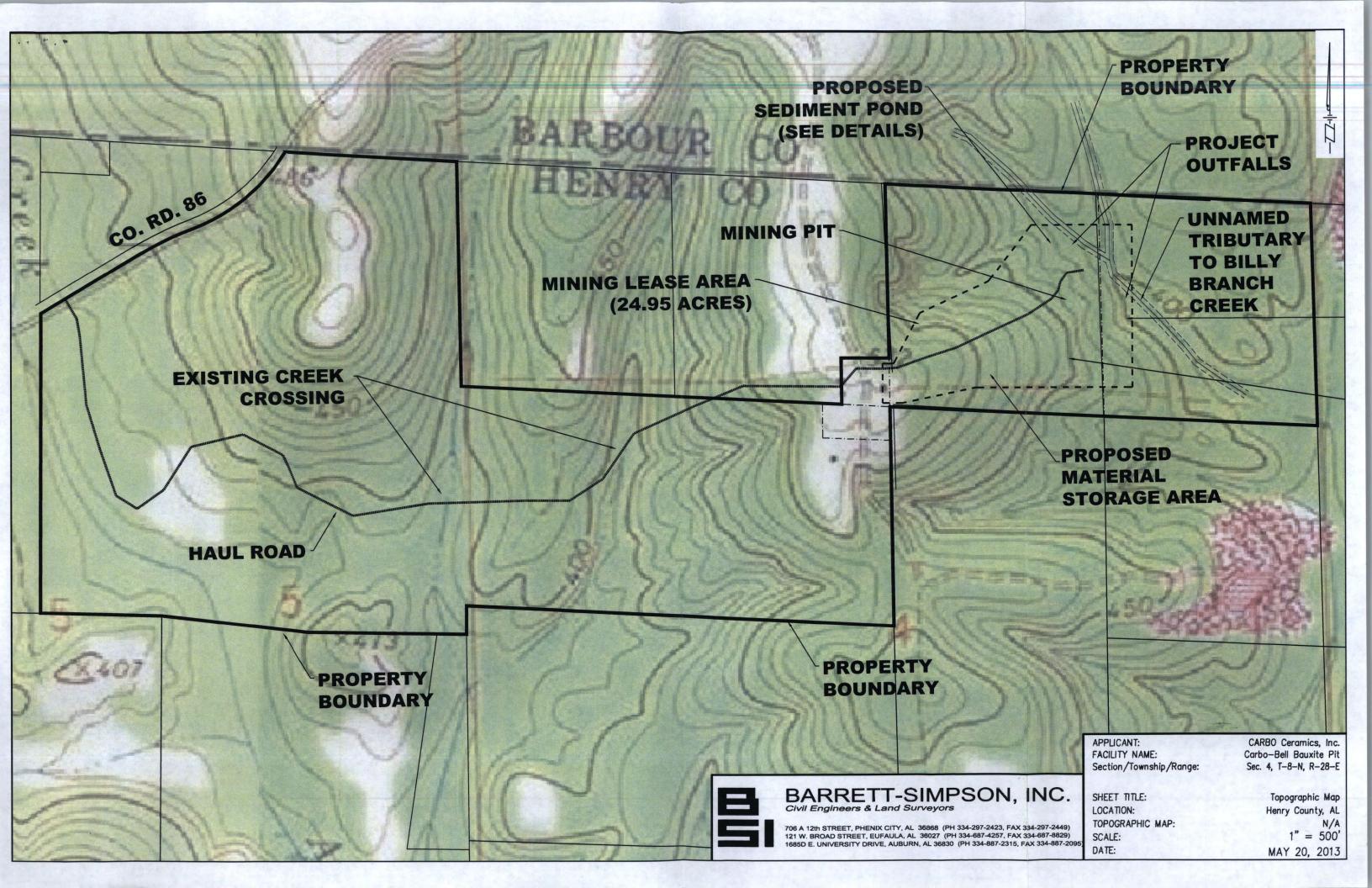


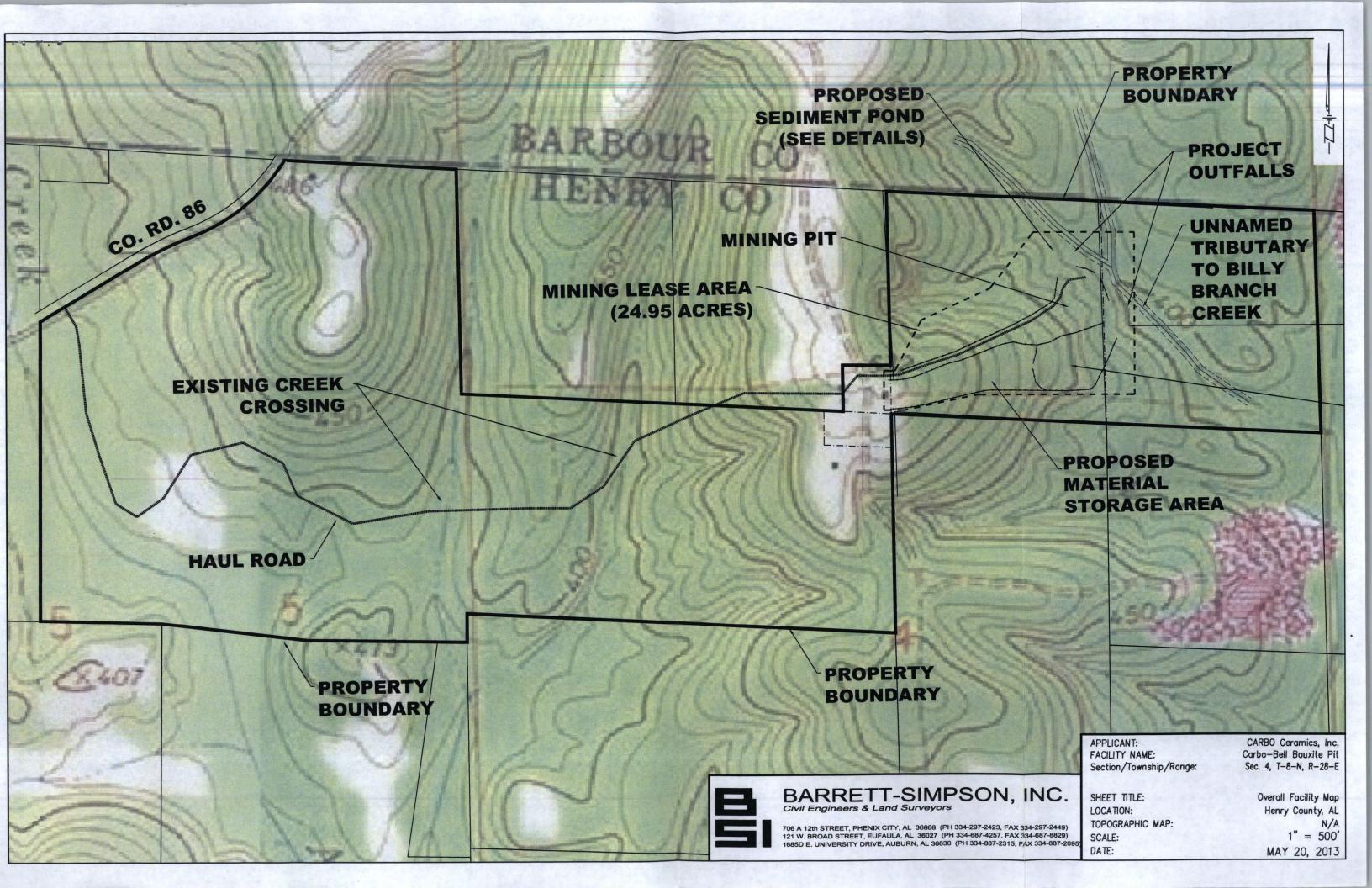
NOT TO SCALE

#### NOTE:

THIS POND SHALL BE 0.7
ACRES IN SURFACE AREA AND 5
FEET DEEP TO OBTAIN THE
VOLUME SHOWN.









#### **BARRETT-SIMPSON, INC.**

Civil Engineers & Land Surveyors

Timothy W. Simpson, P.E., P.L.S. Principal, President George W. Barrett, P.L.S. Principal, Vice President

Eddie A. Eubanks, P.L.S.
Partner
Jonathon A. Ham, P.L.S.
Partner
M. Blake Rice, P.E.
Partner
Christopher M. Rogers, P.E.
Patner

March 30, 2018

VIA U.S. MAIL

Alabama Department of Environmental Management Mining and Natural Resource Section Water Division P.O. Box 301463 Montgomery, AL 36130-1463

Re: Carbo-Bell Bauxite Pit – Reissuance Application Package NPDES Permit No. AL0082171

To Whom It May Concern,

Attached please find a completed application, fee and all other required maps and documents for the reissuance of the permit referenced above.

Please let me know if you have any questions or require any additional information.

Sincerely,

Barrett-Simpson, Inc.

Chris Rogers, P.E.

**Engineering Manager** 

RECEIVED

APR 0 2 2018

STORM WATER
MANAGEMENT BRANCH

#### POLLUTION ABATEMENT/PREVENTION (PAP) PLAN

**FOR** 

#### **CARBO-BELL BAUXITE PIT**

**OF** 

CARBO CERAMICS, INC.

March 30, 2018

BARRETT-SIMPSON, INC.

706 12<sup>TH</sup> STREET Phenix City, AL 36867 (334) 297-2423

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XXI.	DESIGN DATA

APPENDIX A – RAINFALL DATA

APPENDIX B – SITE LAYOUT & SURFACE WATER FLOW DIAGRAM

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#### I. INTRODUCTION:

This Pollution Abatement/Prevention (PAP) plan is a required part of an application for a NPDES Permit. The Carbo-Bell Bauxite Pit, will be located in Section 4, T-8-N, R-28-E, Henry County, Alabama. This application is being prepared in accordance with the rules and regulations of the Alabama Department of Environmental Management (ADEM). A thorough field review of the proposed site has been conducted prior to the compilation and submittal of this plan. The existing conditions and geology of the proposed site has been evaluated to determine the potential for bauxite mining, to calculate runoff coefficients, and determine the sediment control measures required.

The PAP plan is presented in two parts, which includes a narrative description of the operation and treatment requirements, drainage maps, design plans, and discharge calculations. The narrative description is intended to address the format as outlined by the ADEM Admin. Code R. 335-6-9, as well as present the basis for the designs as further detailed in the PAP Plan. Drawings as presented in the PAP Plan were derived from rules and regulations of the ADEM Admin. Code R. 335-6-9, Appendix "A" and Appendix "B", as well as from other generally accepted design data sources primarily from the U.S. Department of Agriculture's Natural Resource Conservation Service.

#### II. OPERATOR

The operator of this pit is CARBO Ceramics, Inc. Their business address is:

36 Arch Drive Eufaula, AL 36027

The proposed pit will lie within a property owned by James and William Bell & Heirs. The area that is to be disturbed is more particularly described as follows:

Commence at the southwest corner of the northwest ¼ of the northeast ¼ of Section 4, Township 8 North, Range 28 East, run thence North 57 degrees 23 minutes 50 seconds East a distance of 193.77 feet to a rebar with cap which shall be known as the **POINT OF BEGINNING**;

run thence North 00 degrees 00 minutes 39 seconds West a distance of 461.65 feet to a rebar with cap; run thence North 65 degrees 05 minutes 22 seconds East a distance of 466.66 feet to a rebar with cap; run thence North 37 degrees 32 minutes 12 seconds East a distance of 441.15 feet to a rebar with cap; run thence North 89 degrees 57 minutes 13 seconds East a distance of 620.22 fect to a rebar with cap; run thence South 00 degrees 06 minutes 11 seconds East a distance of 1008.36 feet to a rebar with cap; run thence South 89 degrees 59 minutes 34 seconds West a distance of 1313.96 feet to the **POINT OF BEGINNING** of the herein described parcel of land.

Said parcel contains 24.95 acres more or less and lies within Section 4, Township 8 North, Range 28 East, Henry County, Alabama.

#### STATE OF ALABAMA HENRY COUNTY

#### III. GENERAL INFORMATION

This facility will operate five days a week from 9:00 a.m. to 5:00 p.m., and will employ approximately three people. The product to be mined is bauxite clay. There will be no mining or processing of coal.

#### IV. TOPOGRAPHIC MAP

A site drainage map indicating topography, areas of excavation, proposed mineral stockpile areas, proposed topsoil stockpile areas, drainage diversionary structures, treatment ponds, and discharge points is provided as part of this plan.

#### V. METHOD OF DIVERTING SURFACE WATER RUNOFF

The site drainage map shows topography and all diversionary structures. The treatment pond is located using natural topography to minimize the construction of diversionary structures. Drainage from all spoil, stockpile areas, excavation areas, loading areas, equipment storage areas, and any other areas of disturbance related to the mining site will be directed to a permitted treatment structure prior to discharging. Any minor areas of disturbance that drainage cannot feasibly be routed to a treatment pond will be graded and will be vegetated with annual and perennial grasses and will have effective Best Management Practices (BMP's) for the control of non-point source pollution fully implemented and maintained at all times.

#### VI. RAW MATERIALS, PROCESSES AND PRODUCTS

The material that will be mined is bauxite clay. There will be no washing or screening of any of the raw materials at this site.

#### VII. SCHEMATIC DIAGRAM

A schematic diagram showing each process that creates wastewater, the wastewater collection system has been provided as part of this PAP plan.

#### VIII. POST TREATMENT QUANTITY AND QUALITY OF EFFLUENT

Runoff calculations have been provided as part of this plan to determine flow and to size the discharge structures. The treatment ponds have been designed to allow adequate settling times for the expected particles sizes to reduce suspended solids concentrations to meet effluent limits. The treatment ponds are designed to provide adequate oxidation for the removal of iron and other metals to a concentration within the permit requirements. The pH of the effluent will be between 6.0 su and 8.5 su or as allowed by the permit.

#### IX. WASTE TREATMENT FACILITIES

The primary method of treatment for the removal of expected pollutants will be settling. The proposed sediment ponds have adequate capacity to detain all surface runoff for a 24-hour 25-year storm event. The sediment ponds will allow sedimentation to ensure that silt does not leave the site. All aspects of the proposed sediment pond shall be in accordance with the requirements of the PAP Plan checklist.

The sediment ponds at a minimum will provide 0.25 acre-feet of storage for every acre of disturbed land draining to the pond. All trees, brush, boulders, and other objects that would impair compaction will be removed from the pond prior to construction. The minimum width at the top of the dam will be at least 12 feet. The side slopes of the dam will be no steeper than 3:1. At least 80% coverage of annual and perennial grasses will be established on the embankments of the dam. A cutoff trench will be constructed along the center of the dam and will extend at least 2 feet into the bedrock. The cutoff trench will be at least 8 feet wide, the side slopes will no less than 1:1, and it will be filled with impervious material compacted to 95% compaction standard proctor ASTM. The dam will also be compacted 95% compaction standard proctor ASTM. The embankments will be constructed in lifts less than 12 inches.

The spill-pipe is sized to carry peak flow from the 25-year, 24 hour storm event, and are constructed of material that will not chemically react with the effluent. Anti-seep collars will extend radially at least 2 feet from each joint in the spill-pipes. A splash pad constructed of riprap will be installed at the discharge pipe to prevent erosion from the discharge.

The dam will be equipped with an emergency spillway sized for the peak flow from 100-year, 24-hour storm event. The emergency overflow will be at least 20 feet long, lined with riprap, and the side slopes will be no steeper than 2:1. There will be at least 1.5 feet of freeboard between the normal overflow and the emergency overflow, and there will be at least 1.5 feet of freeboard between the maximum design flow of the emergency spillway and the top of the dam.

The treatment pond shall be maintained until mining has ceased, the site has been completely reclaimed, and the operator has received written permission from ADEM to remove the treatment ponds. Accumulated sediments/sludge in the treatment ponds will

be removed when the ponds have lost 60% of their liquid storage capacity due to sedimentation.

#### X. SEDIMENT CONTROL FOR HAUL ROADS

The access and haul roads will have a sustained grade of no greater than 10%, with a maximum grade no greater 15% for 300 feet. The outer slope will be no steeper than 2:1 and will maintain 80% coverage of annual and perennial grasses. Effective BMP's will be installed and maintained at all times. The roads will be crowned and properly ditched. Also, water bars and wing ditches will be installed where appropriate. Typical designs for these structures are included as part of this plan. There will be no stream crossing at this facility. If it becomes necessary to construct a stream crossing the certified design plans will be submitted to ADEM for their review.

#### XI. LOCATION OF ALL STREAMS ADJACENT TO MINING AREA

The topographic map submitted as part of this plan shows all water bodies. The mining operation will provide a 50-foot minimum buffer zone around streams. If a buffer zone cannot be maintained ADEM will be contacted regarding construction of a designed berm to protect the stream. The haul road that will be utilized for this pit is an existing logging road with existing stream crossings. There will be no new stream crossings for this permit.

#### XII. NON-POINT SOURCE POLLUTION

By virtue of the fact that all disturbed areas are graded such that the drainage will carry sediment to the ponds, non-point sources of pollution are not expected for this project.

#### XIII. PUBLIC WATER SUPPLY IMPOUNDMENT

This facility will not discharge to a stream segment classified as a Public Water Supply.

#### XIV. SPILL PREVENTION CONTROL & COUNTERMEASURES PLAN

Fuel will not be stored on-site; therefore, a SPCC plan has not been developed.

#### XV. RUNOFF CALCULATIONS

Runoff calculations where calculated for the sediment basin on the site. All numbers are based on a 25-year, 24-hour storm event and calculated using the Modified Rational Method. All variables and conclusions can be seen in the table below:

Pond #	Area, ac	Length, ft	Slope, %	Tc, min	Flow, cfs	Req'd Storage, cu. ft.
1	5.4	1000	9	10	9.68	21,967
2	10.8	1150	9	10	12.01	61,959

Pond #1

Required Stormwater Storage:

21,967 cubic feet

Available Stormwater Storage:

37,750 cubic feet

Pond #2

Required Stormwater Storage:

61,959 cubic feet

Available Stormwater Storage:

124,000 cubic feet

#### XVI. RECLAMATION PROCEDURE

As mining is completed in an area, the area shall be dressed to eliminate any piles of dirt, or low areas which will hold water, with terraces to keep erosion to a minimum, and grassed. A sump shall be maintained at the low end of all reclamation work until a satisfactory stand of grass is obtained.

During construction and reclamation, erosion control measures such as hay bales, riprap, cleared trees, and other acceptable methods will be utilized as needed to minimize erosion.

#### XVII. BMP TYPICALS (attached)

Pipe and Spillway Detail
Typical section for Constructed Dam
Swale Detail
Outlet Protection Detail
Flow Schematic

#### XVIII. CHEMICALS/COMPOUNDS AND POTENTIAL TOXICITY SOURCES

No chemicals/compounds shall be used on this project which would contaminate any of the existing creeks.

#### XIX. EPA FORM 2D and/or EPA FORM 2C

EPA Form 2C & 2D were not completed because only stormwater runoff will be discharged from the proposed facility.

## XX. COPY OF ASMC REQUIRED WATER QUALITY RELATED DATA AND INFORMATION

No information pertaining to the ASMC is attached or included because this project is only for non-coal mining operations. ASMC regulates coal mining operations.

#### **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 information submitted. Based on my inquiry of the person or persons who manage the system, of 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 willful violations."

Prepared by:		
Christopher M. Rogers, PE #30447 Barrett-Simpson, Inc.	Date	

#### XXI. DESIGN DATA

001P

DISTURBED AREA = 5.4 AC. X 1/4 AC. FT/AC. =

THEREFORE: 1.35 AC. FT. POND REQ'D (58,806 CUBIC FEET)

DRAINAGE AREA – 5.4 AC.

THEREFORE, REQ'D: 1-15" PIPE

1 - 10' x 1.0' SPILLWAY

POND VOLUME REQUIRED: 1.35 AC. FT. POND VOLUME PROVIDED: 1.40 AC. FT.

#### <u>002P</u>

D1STURBED AREA = 10.8 AC. X 1/4 AC. FT/AC. =

THEREFORE: 2.7 AC. FT. POND REQ'D (117,612 CUBIC FEET)

DRAINAGE AREA – 10.8 AC.

THEREFORE, REQ'D: 1 - 18" PIPE

1 - 10' x 1.0' SPILLWAY

POND VOLUME REQUIRED: 2.70 AC. FT. POND VOLUME PROVIDED: 2.85 AC. FT.

#### APPENDIX A

#### RAINFALL DATA

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# APPENDIX F TYPICAL BMP'S

