



Alabama Department of Environmental Management  
adem.alabama.gov

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OCT 28 2016

Ms. Judy M. Mathis  
President and Secretary  
Pyne Rock Corporation  
129 4<sup>th</sup> Street North  
Bessemer, AL 35020

RE: Draft Permit  
Pyne Rock Reclamation  
NPDES Permit No. AL0058076  
Jefferson County (073)

Dear Ms. Mathis:

Transmitted herein is a draft of the above referenced permit. Please review the enclosed draft permit carefully as it may contain additions/revisions to 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 Michael T. Bergh by email at [mtbergh@adem.alabama.gov](mailto:mtbergh@adem.alabama.gov) or by phone at (334) 274-4238.

Sincerely,

A handwritten signature in cursive script that reads "Catherine A. McNeill".

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

CAM/mtb File: DPER/9886

Enclosure

cc: Michael T. Bergh, 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





# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM INDIVIDUAL PERMIT

PERMITTEE: Pyne Rock Corporation  
129 4<sup>th</sup> Street North  
Bessemer, Alabama 35020

FACILITY LOCATION: Pyne Rock Reclamation  
1611 Highway 150  
Bessemer, Alabama 35020  
Jefferson County

PERMIT NUMBER: AL0058076

DSN & RECEIVING STREAM:  
001-1 Rocky Brook

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

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

**\*DRAFT\***

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Alabama Department of Environmental Management

**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	
	Daily Minimum	Monthly Average	Daily Maximum	Sample Type	Measurement Frequency <sup>1</sup>
pH 00400	6.0 s.u.	-----	9.0 s.u.	Grab	2/Month
Solids, Total Suspended 00530	-----	20.0 mg/L	30.0 mg/L	Grab	2/Month
Iron, Dissolved (as Fe) 01046	-----	1.0 mg/L	2.0 mg/L	Grab	2/Month
Flow, In Conduit or Thru Treatment Plant <sup>2</sup> 50050	-----	Report MGD	Report MGD	Instantaneous	2/Month

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

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

### C. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

#### 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

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

<sup>2</sup> Flow must be determined at the time of sample collection by direct measurement, calculation, or other method acceptable to the Department.

not collect more than two samples per calendar month. Each sample collected shall be analyzed for each parameter specified in Part I.A. of this Permit.

- b. If the final effluent is pumped in order to discharge (e.g. from incised ponds, old highwall cuts, old pit areas or depressions, etc.), the Permittee shall collect at least one grab sample of the discharge from each point source identified on Page 1 of this Permit and described more fully in the Permittee's application each quarterly (three month) monitoring period if a discharge occurs at any time during the quarterly monitoring period which results from direct pumped drainage. Each sample collected shall be analyzed for each parameter specified in Part I.A. of this Permit.
- c. The Permittee may increase the frequency of sampling listed in Parts I.C.1.a and I.C.1.b; however, all sampling results must be reported to the Department and included in any calculated results submitted to the Department in accordance with this Permit.

## 2. Measurement Frequency

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

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

## 3. Monitoring Schedule

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

- a. MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY shall be conducted during the first full month following the effective date of coverage under this Permit and every month thereafter. More frequently than monthly and monthly monitoring may be done anytime during the month, unless restricted elsewhere in this Permit, but the results should be reported on the last Discharge Monitoring Report (DMR) due for the quarter (i.e., with the March, June, September, and December DMRs).
- b. QUARTERLY MONITORING shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The Permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective

date of this Permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring may be done anytime during the quarter, unless restricted elsewhere in this Permit, but the results should be reported on the last DMR due for the quarter (i.e., with the March, June, September, and December DMRs).

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

**4. Sampling Location**

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

**5. Representative Sampling**

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

**6. Test Procedures**

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

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136, guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h), and ADEM Standard Operating Procedures. If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this Permit the Permittee shall use the newly approved method.
- b. For pollutant parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based

upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the Permittee during permit issuance, reissuance, modification, or during compliance schedule.

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

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

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

## 7. Recording of Results

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

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

## 8. Routine Inspection by Permittee

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

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

**10. Monitoring Equipment and Instrumentation**

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

**D. DISCHARGE REPORTING REQUIREMENTS**

**1. Requirements for Reporting of Monitoring**

- a. Monitoring results obtained during the previous three (3) months shall be summarized for each month on a Discharge Monitoring Report (DMR) Form approved by the Department, and submitted to the Department so that it is received by the Director no later than the 28<sup>th</sup> day of the month following the quarterly reporting period (i.e., on the 28<sup>th</sup> day of January, April, July, and October of each year).
- b. The Department utilizes a web-based electronic environmental (E2) reporting system for submittal of DMRs. **Except as allowed by Part I.D.1.c. or d., the Permittee shall submit all DMRs required by Part I.D.1.a. by utilizing the E2 reporting system.** The E2 reporting system Permittee Participation Package may be downloaded online at <https://e2.adem.alabama.gov/npdes>.

- c. 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 e-mail, or hand-delivery stamped date).
- d. The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable. Permittees with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The Permittee shall submit the Department-approved DMR forms to the address listed in Part I.D.1.j.
- e. If the Permittee, using approved analytical methods as specified in Part I.C.6., monitors any discharge from a point source identified on Page 1 of this Permit and describe more fully in the Permittee's application more frequently than required by this Permit; the results of such monitoring shall be included in the calculation and reporting of values on the DMR Form, and the increased frequency shall be indicated on the DMR Form.
- f. In the event no discharge from a point source identified on Page 1 of this Permit and described more fully in the Permittee's application occurs during a monitoring period, the Permittee shall report "No Discharge" for such period on the appropriate DMR Form.
- g. 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 any time during the entire quarterly (three month) monitoring period.
- h. Each DMR Form submitted by the Permittee to the Department in accordance with Part I.D.1. must be legible and bear an original signature or electronic signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this Permit.
- i. 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."

- j. 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

- k. 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.
- l. If this Permit is a reissuance, then the Permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.D.1

## 2. Noncompliance Notification

- a. The Permittee must notify the Department if, for any reason, the Permittee's discharge:
- (1) Potentially threatens human health or welfare;
  - (2) Potentially threatens fish or aquatic life;
  - (3) Causes an in-stream water quality criterion to be exceeded;
  - (4) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. §1317(a);
  - (5) Contains a quantity of a hazardous substance which has been determined may be harmful to the public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. §1321(b)(4); or
  - (6) Exceeds any discharge limitation for an effluent parameter as a result of an unanticipated bypass or upset.

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

- b. If for any reason, the Permittee's discharge does not comply with any limitation of this Permit, the Permittee shall submit a written report to the Director as provided in Part I.D.2.c. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Part I.D.1. of this Permit after becoming aware of the occurrence of such noncompliance.
- c. 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:
  - (1) All mining, processing, or disturbance in the drainage basin(s) associated with the discharge has ceased and site access is adequately restricted or controlled to preclude unpermitted and unauthorized mining, processing, transportation, or associated operations/activity;
  - (2) Permanent, perennial vegetation has been re-established on all areas mined or disturbed for at least one year since mining has ceased in the drainage basin(s) associated with the surface discharge, or all areas have been permanently graded such that all drainage is directed back into the mined pit to preclude all surface discharges;
  - (3) Unless waived in writing by the Department, the Permittee has been granted, in writing, a 100% Bond Release, if applicable, by the Alabama Department of Industrial Relations and, if applicable, by the Surface Mining Commission for all areas mined or disturbed in the drainage basin(s) associated with the discharge;
  - (4) Unless waived in writing by the Department, the Permittee has submitted inspection reports prepared and certified by a Professional Engineer (PE) registered in the State of Alabama or a qualified professional under the PE's direction which certify that the facility has been fully reclaimed or that water quality remediation has been achieved. The first inspection must be conducted

approximately one year prior to and the second inspection must be conducted within thirty days of the Permittee's request for termination of monitoring and reporting requirements;

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

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

### **1. Anticipated Noncompliance**

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

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

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

### **3. Updating Information**

- a. The Permittee shall inform the Director of any change in the Permittee's mailing address or telephone number or in the Permittee's designation of a facility contact or officer(s) having the authority and responsibility to prevent and abate violations of the AWPCA,

the AEMA, the Department's rules and regulations, and the terms and conditions of this Permit, in writing, no later than ten (10) days after such change. Upon request of the Director, the Permittee shall furnish the Director with an update of any information provided in the permit application.

- b. If the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

**4. Duty to Provide Information**

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

**F. SCHEDULE OF COMPLIANCE**

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

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

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

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

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

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

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

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 Code of Alabama 1975, §§22-22A-1 et. seq., as amended, and/or a criminal penalty as authorized by Code of Alabama 1975, §22-22-1 et. seq., as amended.
- d. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of this Permit shall not be a defense for a Permittee in an enforcement action.
- e. Nothing in this Permit shall be construed to preclude or negate the Permittee's responsibility or liability to apply for, obtain, or comply with other ADEM, federal, state, or local government permits, certifications, licenses, or other approvals.
- f. The discharge of a pollutant from a source not specifically identified in the permit application for this Permit and not specifically included in the description of an outfall in this Permit is not authorized and shall constitute noncompliance with this Permit.
- g. The Permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this Permit or to minimize or prevent any adverse impact of any permit violation.

**2. Change in Discharge**

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

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

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

of this Permit exceeds or is inconsistent with the established toxic or other pollutant effluent standard or prohibition.

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

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

**5. Compliance with Statutes and Rules**

- a. This Permit has been issued under ADEM Admin. Code div. 335-6. All provisions of this division, that are applicable to this Permit, are hereby made a part of this Permit. A copy of this division may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Blvd., Montgomery, AL 36110-2059.
- b. This Permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

**6. Right of Entry and Inspection**

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

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

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

- a. If the Permittee intends to continue to discharge beyond the expiration date of this Permit, the Permittee shall file with the Department a complete permit application for reissuance of this Permit at least 180 days prior to its expiration.
- b. If the Permittee does not desire to continue the discharge(s) allowed by this Permit, the Permittee shall notify the Department at least 180 days prior to expiration of this Permit of the Permittee's intention not to request reissuance of this Permit. This notification must include the information required in Part I.D.4.a. and be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Admin. Code r. 335-6-6-.09.
- c. Failure of the Permittee to submit to the Department a complete application for reissuance of this Permit at least 180 days prior to the expiration date of this Permit will void the automatic continuation of this Permit provided by ADEM Admin. Code r. 335-6-6-.06; and should this Permit not be reissued for any reason, any discharge after the expiration of this Permit will be an unpermitted discharge.

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

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

#### **1. Tampering**

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

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

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

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

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

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

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

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

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

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

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

### **D. DEFINITIONS**

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

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

4. Arithmetic Mean - means the summation of the individual values of any set of values divided by the number of individual values.
5. BOD - means the five-day measure of the pollutant parameter biochemical oxygen demand
6. Bypass - means the intentional diversion of waste streams from any portion of a treatment facility.
7. CBOD - means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. Controlled Surface Mine Drainage – means any surface mine drainage that is pumped or siphoned from the active mining area.
9. Crushed stone mine - means an area on or beneath land which is mined, quarried, or otherwise disturbed in activity related to the extraction, removal, or recovery of stone from natural or artificial deposits, including active mining, reclamation, and mineral storage areas, for production of crushed stone.
10. 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.
11. Daily maximum - means the highest value of any individual sample result obtained during a day.
12. Daily minimum - means the lowest value of any individual sample result obtained during a day.
13. Day - means any consecutive 24-hour period.
14. Department - means the Alabama Department of Environmental Management.
15. Director - means the Director of the Department or his authorized representative or designee.
16. Discharge - means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state." Code of Alabama 1975, §22-22-1(b)(8).
17. Discharge monitoring report (DMR) - means the form approved by the Director to accomplish monitoring report requirements of an NPDES Permit.
18. DO - means dissolved oxygen.
19. E. coli – means the pollutant parameter Escherichia coli.
20. 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.
21. EPA - means the United States Environmental Protection Agency.
22. Federal Water Pollution Control Act (FWPCA) - means 33 U.S.C. §§1251 et. seq., as amended.
23. Flow – means the total volume of discharge in a 24-hour period.
24. 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).
25. 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.
26. 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.
27. 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.
28. mg/L - means milligrams per liter of discharge.
29. MGD - means million gallons per day.
30. 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.)
31. 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.
32. 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.
33. NH<sub>3</sub>-N - means the pollutant parameter ammonia, measured as nitrogen.
34. 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.
35. Permit application - means forms and additional information that are required by ADEM Admin. Code r. 335-6-6-.08 and applicable permit fees.
36. 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).
37. 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.
38. Pollutant of Concern - means those pollutants for which a water body is listed as impaired or which contribute to the listed impairment.
39. 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
40. 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.
41. 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.
42. 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".
43. 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.
44. Receiving Stream - means the "waters" receiving a "discharge" from a "point source".

45. 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.
46. 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.
47. TKN - means the pollutant parameter Total Kjeldahl Nitrogen.
48. TON - means the pollutant parameter Total Organic Nitrogen.
49. TRC - means Total Residual Chlorine.
50. TSS - means the pollutant parameter Total Suspended Solids
51. 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.
52. 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.
53. 24-hour precipitation event - means that amount of precipitation which occurs within any 24-hour period.
54. 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.
55. 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.
56. 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.

57. Week - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
58. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

#### **E. SEVERABILITY**

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

#### **F. PROHIBITIONS AND ACTIVITIES NOT AUTHORIZED**

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

#### **G. DISCHARGES TO IMPAIRED WATERS**

1. This Permit does not authorize new sources or new discharges of pollutants of concern to impaired waters unless consistent with an EPA-approved or EPA-established Total Maximum Daily Load (TMDL) and applicable State law, or unless compliance with the limitations and requirements of the Permit ensure that the discharge will not contribute to further degradation of the receiving stream. Impaired waters are those that do not meet applicable water quality standards and are identified on the State of Alabama's §303(d) list or on an EPA-approved or EPA-established TMDL. Pollutants of concern are those pollutants for which the receiving water is listed as impaired or contribute to the listed impairment.
2. Facilities that discharge into a receiving stream which is listed on the State of Alabama's §303(d) list of impaired waters, and with discharges that contain the pollutant(s) for which the waters are impaired, must within six (6) months of the Final §303(d) list approval, document in its BMP plan how the BMPs will control the discharge of the pollutant(s) of concern, and must ensure that there

will be no increase of the pollutants of concern. A monitoring plan to assess the effectiveness of the BMPs in achieving the allocations must also be included in the BMP plan.

3. If the facility discharges to impaired waters as described above, it must determine whether a TMDL has been developed and approved or established by EPA for the listed waters. If a TMDL is approved or established during this Permit cycle by EPA for any waters into which the facility discharges, the facility must review the applicable TMDL to see if it includes requirements for control of any water discharged by the Permittee. Within six (6) months of the date of TMDL approval or establishment, the facility must notify the Department on how it will modify its BMP plan to include best management practices specifically targeted to achieve the allocations prescribed by the TMDL, if necessary. Any revised BMP plans must be submitted to the Department for review. The facility must include in the BMP plan a monitoring component to assess the effectiveness of the BMPs in achieving the allocations.

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
WATER DIVISION**

**NPDES INDIVIDUAL PERMIT RATIONALE**

**Company Name:** Pyne Rock Corporation  
**Facility Name:** Pyne Rock Reclamation  
**County:** Jefferson County  
**Permit Number:** AL0058076  
**Prepared by:** Michael T. Bergh  
**Date:** October 11, 2016  
**Receiving Waters:** Rocky Brook  
**Permit Coverage:** Iron Ore Waste Reclamation, Dry Processing, Transportation and Storage, and Associated Areas  
**SIC Code:** 1011

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

This proposed permit covers an iron ore waste reclamation facility, dry processing, transportation and storage, and associated areas which discharge to surface waters of the state.

This proposed permit authorizes treated discharges into a stream segment, other State waters, or local watersheds that currently have a water quality classification of Fish and Wildlife (F&W) (ADEM Admin. Code ch. 335-6-11). If the requirements of the proposed permit are fully implemented, the facility will not discharge pollutants at levels that will cause or contribute to a violation of the F&W classification.

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

The Technology Based Effluent Limits (TBELs) for facilities operating to obtain iron ore can be found under the New Source Performance Standards (NSPS) in 40 CFR 440.14. The proposed effluent limitations include maximum daily and monthly average values for Total Suspended Solids (TSS), pH, and dissolved Iron (Fe). This proposed permit changes the previously permitted parameter of Iron, Total (As Fe) to Iron, Dissolved (As Fe).

The instream WQS for pH, for streams classified as F&W, are 6.0 – 8.5 s.u. per ADEM Admin Code r. 335-6-10-.09. However, due to the fact that discharges are expected only in response to rain events, it is the opinion of the Department that discharges with an allowable pH daily maximum of 9.0 s.u. will not adversely affect the instream pH based on the low discharge/stream flow ratio. Furthermore, the proposed limitations for pH of 6.0 – 9.0 s.u. are identical to those proposed in 40 CFR 440.14. The proposed limitations have been shown to be protective of water quality.

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 WQS. The proposed permit terms and conditions are predicated on the basis of ensuring a reduction of pollutants in the discharge to a level that reduces the potential of contributing to or causing a violation of applicable State WQS.

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

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

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

The applicant is not proposing discharges of pollutants to a water of the State with an approved Total Maximum Daily Load (TMDL). However, the receiving stream flows within the Shades Creek watershed having approved TMDLs for fecal coliform, siltation, turbidity, and habitat alteration. Fecal coliform is not a pollutant expected in significant quantities from a discharge of this type, and therefore not proposed to be limited by this permit. According to the US EPA Region 4 document *TMDL for Shades Creek: Siltation, Turbidity and Habitat Alteration* (October 2004), the TMDL Load Allocation (LA) is 24.7 (T/yr/km<sup>2</sup>). Calculations using the maximum allowable daily effluent TSS concentration and the allowable monthly average effluent TSS concentration, both discharging 360 days a year at the expected flow rate, indicate TSS loading rates of 15.333 (T/yr/km<sup>2</sup>) and 10.222 (T/yr/km<sup>2</sup>) respectively. Additional calculations using the expected TSS loading and flow rate discharging 360 days a year indicate a TSS loading of 17.869 (T/yr/km<sup>2</sup>). All values, which were calculated using information provided in the Permittee's application, are less than the TMDL based LA; therefore, TSS monthly average and daily maximum effluent limits of 20.0 mg/L and 30 mg/L are proposed.

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.

If the requirements of the proposed permit and pollution abatement plan are fully implemented, there is reasonable assurance that the facility will not discharge pollutants at levels that will cause or contribute to any further impairment of Shades Creek.

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

The proposed permit does not authorize new or increased discharges of pollutants to a Tier II water. Therefore, the Antidegradation Policy (ADEM Admin. Code 335-6-10-.04) does not apply to this permit.

Information provided in Sections XVII and XVIII of the permit application:

Outfall	Drainage Acres	Flow (MGD)	Frequency (hr/Day)	Frequency (days/month)	TSS (lb/day)
001-1	56	0.085	Precipitation	Precipitation	24.8

Estimated loading in (T/yr/km<sup>2</sup>) given the expected flow (MGD) and daily maximum TSS concentration (mg/L):

$$\text{Outfall 001-1: } \frac{30 \text{ mg}}{\text{L}} \times \frac{.085 \text{ million gallons}}{\text{day}} \times \frac{8.345 \text{ lb} \cdot \text{L}}{\text{mg} \cdot \text{million gallons}} \times \frac{30 \text{ days}}{\text{month}} \times \frac{12 \text{ month}}{\text{year}} \times \frac{1 \text{ tonne}}{2204.62 \text{ lbs}} \times \frac{1}{56 \text{ acres}} \times \frac{1 \text{ acre}}{.004047 \text{ km}^2} = 15.333 \text{ T/yr/km}^2$$

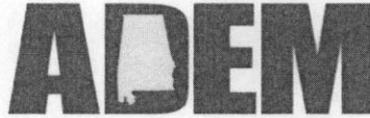
Estimated loading in (T/yr/km<sup>2</sup>) given the expected flow (MGD) and monthly average TSS concentration (mg/L):

$$\text{Outfall 001-1: } \frac{20 \text{ mg}}{\text{L}} \times \frac{.085 \text{ million gallons}}{\text{day}} \times \frac{8.345 \text{ lb} \cdot \text{L}}{\text{mg} \cdot \text{million gallons}} \times \frac{30 \text{ days}}{\text{month}} \times \frac{12 \text{ month}}{\text{year}} \times \frac{1 \text{ tonne}}{2204.62 \text{ lbs}} \times \frac{1}{56 \text{ acres}} \times \frac{1 \text{ acre}}{.004047 \text{ km}^2} = 10.222 \text{ T/yr/km}^2$$

Estimated loading in (T/yr/km<sup>2</sup>) given the expected flow (MGD) and TSS (lb/day) provided in the application:

$$\text{Outfall 001-1: } \frac{24.8 \text{ lb}}{\text{day}} \times \frac{30 \text{ days}}{\text{month}} \times \frac{12 \text{ month}}{\text{year}} \times \frac{1 \text{ tonne}}{2204.62 \text{ lbs}} \times \frac{1}{56 \text{ acres}} \times \frac{1 \text{ acre}}{.004047 \text{ km}^2} = 17.869 \text{ T/yr/km}^2$$

LANCE R. LEFLEUR  
DIRECTOR



ROBERT J. BENTLEY  
GOVERNOR

Alabama Department of Environmental Management  
adem.alabama.gov

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February 10, 2016

**TO:** NPDES-regulated Entities Submitting Paper Discharge Monitoring Reports (DMRs)

**FROM:** Glenda L. Dean, Chief *GLD*  
Water Division

**RE:** Notice of Upcoming Deadline for Electronic Submittal of DMRs

Please be aware that the Environmental Protection Agency (EPA) promulgated the NPDES Electronic Reporting Rule on October 22, 2015. This rule created 40 CFR Part 127, which sets forth the NPDES Electronic Reporting regulations applicable to NPDES-regulated entities. 40 CFR §127.11(a)(1) requires all Discharge Monitoring Reports (DMRs) submitted by NPDES-regulated entities **on or after December 21, 2016**, to be submitted electronically. *(Note: This deadline does not extend any deadline that may have been established by a permit.)* This federal requirement is directly applicable to all NPDES—regulated entities that submit DMRs regardless of whether the requirement is in the facility's permit or the Department's regulations. In addition, the Department will not provide a permittee with paper forms for DMRs that are due after December 21, 2016, unless the permittee has a waiver from electronic reporting for the respective time period. While the Department will have the authority to grant a permittee a temporary or permanent waiver from electronic reporting on a case-by-case basis, the Department does not plan to grant waivers except under extreme circumstances.

The Department's Electronic Environmental (E2) Reporting System has an electronic Discharge Monitoring Report (eDMR) component that is available for the electronic submittal of DMRs. The Department encourages permittees to register for the E2 Reporting System as soon as possible. While the Department processes E2 registrations as quickly as possible, delays may occur when there are a large number of registrations awaiting processing, the permits being registered are complex, or the registration application is incomplete. For those permittees that do not have an earlier date specified in their current permit, early registration will help ensure that they will be ready to electronically submit DMRs by or before the federal regulatory deadline (December 21, 2016). For those permittees whose current permit requires registration in E2, they should register before the deadline specified in their permit, but not later than December 21, 2016.

The E2 Permittee Participation Package, which provides information on the registration process, may be downloaded online at <https://e2.adem.alabama.gov/npdes>. The registration forms may also be downloaded from the same webpage. To register, an ADEM Form 511 (E2 Registration Form) must be completed to register the permittee and an ADEM Form 512 (Electronic Signature Agreement) must be completed for each person that will be a "Certifier". At least one "Certifier" is needed for each permittee.

If you have any questions regarding your registration in the E2 Reporting System, please contact Ms. Cynthia Abney at [cwa@adem.state.al.us](mailto:cwa@adem.state.al.us) or (334) 270-5624, or Jean Brewer at [js@adem.state.al.us](mailto:js@adem.state.al.us) or (334) 270-5626.

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

Decatur Branch  
2715 Sandlin Road, S.W.  
Decatur, AL 35603-1333  
(256) 353-1713  
(256) 340-9359 (FAX)



Mobile Branch  
2204 Perimeter Road  
Mobile, AL 36615-1131  
(251) 450-3400  
(251) 479-2593 (FAX)

Mobile-Coastal  
3664 Dauphin Street, Suite B  
Mobile, AL 36608  
(251) 304-1176  
(251) 304-1189 (FAX)

**Alabama Department of Environmental Management**

**Permittee Registration Form for e-DMR/e-SSO**

**INSTRUCTIONS:** Complete this form to register a Permittee for electronic reporting, including any changes to permit requirements that may be necessary to allow the identified Permittee to submit Discharge Monitoring Reports and Sanitary Sewer Overflow Reports electronically. This form should also be used to identify or change authorized representatives who may be assigned an electronic signature for the ADEM E2 Reporting System. Note: The person requesting electronic signature authorization must sign Electronic Signature Agreement for e-DMR/e-SSO (ADEM Form 512). Please check the appropriate boxes on the form below. Please send a hard copy of this completed form with original signature to:

**ADEM**  
**Attn: E2 Coordinator**  
**P O Box 301463**  
**Montgomery, AL 36130-1463**

**Part A. Permittee Information**

<b>Permit Number(s):</b>	
<b>Permittee Name:</b>	
<b>Mailing Address:</b>	Street: _____
	City, State, Zip: _____
<input type="checkbox"/> New Application <input type="checkbox"/> Revised Permittee or Account information <input type="checkbox"/> Request for Reactivation	

**Part B. User Account Information (\* indicates required information)**

<b>Account Action:</b> <input type="checkbox"/> Add <input type="checkbox"/> Update <input type="checkbox"/> Delete	<b>Account Type:</b> Viewer /Preparer <input type="checkbox"/> eSSO <input type="checkbox"/> Certifier <input type="checkbox"/> eDMR <input type="checkbox"/> eDMR
<b>General Information</b>	
*Last Name:	Suffix:
*First Name:	Middle Name/Initial:
Title: <input type="checkbox"/> Mr. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.	
Job Title:	
Employer's Name:	
<b>Contact Information</b>	
*e-mail:	
*Mailing Address (street):	
(city, state, zip):	
*Phone Number(s):	

<b>Account Action:</b> <input type="checkbox"/> Add <input type="checkbox"/> Update <input type="checkbox"/> Delete	<b>Account Type:</b> Viewer /Preparer <input type="checkbox"/> eSSO <input type="checkbox"/> Certifier <input type="checkbox"/> eDMR <input type="checkbox"/> eDMR
<b>General Information</b>	
*Last Name:	Suffix:
*First Name:	Middle Name/Initial:
Title: <input type="checkbox"/> Mr. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.	
Job Title:	
Employer's Name:	
<b>Contact Information</b>	
*e-mail:	
*Mailing Address (street):	
(city, state, zip):	
*Phone Number(s):	

**Part B (continued)**

<b>Account Action:</b> <input type="checkbox"/> Add <input type="checkbox"/> Update <input type="checkbox"/> Delete		<b>Account Type:</b> Viewer /Preparer <input type="checkbox"/> eSSO <input type="checkbox"/> eDMR		<b>Certifier</b> <input type="checkbox"/> eSSO <input type="checkbox"/> eDMR	
<b>General Information</b>					
*Last Name:				Suffix:	
*First Name:			Middle Name/Initial:		
Title:		<input type="checkbox"/> Mr. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.			
Job Title:					
Employer's Name:					
<b>Contact Information</b>					
*e-mail:					
*Mailing Address					
(street) :					
(city, state, zip):					
*Phone Number(s):					

**Part C. Permittee Registration**

I request that the above identified Permittee be registered for electronic reporting and request any Department initiated minor permit revisions (where no fee is required) that may be necessary to allow use of the ADEM E2 Reporting System. As the Permittee or Designee<sup>1</sup> I agree that representatives for this facility will follow permit requirements and the procedures for the electronic submission of DMR and SSO report forms, as described in the Permittee Participation Package.

Please establish or revise the above user accounts in accordance with the information provided for each identified User Account. I understand that each person to receive a Certifier account on E2 Reporting System must submit a properly signed Electronic Signature Agreement.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name of Responsible Official or Authorized Representative <i>(Type or print legibly)</i>	Signature	Date Signed
Official Title <i>(Type or print legibly)</i>		

<sup>1</sup> For the purposes of establishing an E2 account, a Designee is a duly authorized representative of the Permittee in accordance with ADEM Administrative Code. If this document is to be completed by a Designee, the Permittee must submit a written authorization to ADEM before an E2 account (s) can be approved.

*For ADEM use only*

	Name	Date
Received by:		
Approved by:		
E2 updated:		

	Date
Trial Start:	
Full E2:	

## Alabama Department of Environmental Management

### Electronic Signature Agreement for e-DMR/e-SSO

AGREEMENT FOR SUBMITTING ELECTRONIC DOCUMENTS TO THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) USING THE ALABAMA ELECTRONIC ENVIRONMENTAL (E2) REPORTING SYSTEM (the "Agreement"), by and between the ADEM, Montgomery, Alabama, a state governmental agency, and reporting party ("Certifier") who has signed and returned this Electronic Signature Agreement (ESA), is effective on the date on which ADEM issues the initial PERSONAL IDENTIFICATION NUMBER (PIN), in acceptance of Certifier's signed ESA.

1. **RECITALS.** The intent of this agreement is to create legally binding obligations upon the parties using the specified data transmission protocols and the E2 Reporting System, to ensure that the Certifier agrees to: (i) maintain the confidentiality and protect the electronic signature from unauthorized use or compromise, and follow any procedures specified by the ADEM for this purpose; (ii) be held as legally bound, obligated, or responsible by use of the assigned electronic signature as by hand-written signature.
2. **VALIDITY AND ENFORCEABILITY.** This Agreement has been executed by the parties to evidence their mutual intent to follow Department procedures to create binding regulatory reporting documents using electronic transmission and receipt of such records consistent with the provisions of Chapter 6 of the ADEM Administrative Code. Acceptance and execution of this agreement by the ADEM shall be evidenced by the issuance of a PIN to the Certifier. Consistent with ADEM Administrative Code electronic signatures under this agreement shall have the same force and effect as a written signature.
3. **RECEIPT.** Once submitted by a Certifier, a document shall be deemed received by ADEM when the submission ID is generated and the file processed by the E2 System Server. No Document shall satisfy any reporting requirement or be of any legal effect until the auto generated submission ID is provided. The Certifier is responsible for the content of each transmission, in accordance with the associated certification statement, and for reviewing the accuracy of the processed document information and as made available by the ADEM E2 Reporting System.
4. **SIGNATURE.** The Certifier shall adopt as its electronic signature any Personal Identification Number (PIN) assigned by ADEM following acceptance of this ESA. The Certifier agrees that any such Signature affixed to or associated with any transmitted Document shall be sufficient to verify such party originated and possessed the requisite authority both to originate the transaction and to verify the accuracy of the content, in the format of the specified E2 Reporting System transmission protocol or otherwise, at the time of transmittal. The Certifier also expressly agrees that each report it submits by using its PIN constitutes their agreement with the associated certification statement.
5. **DEFINITIONS.** Whenever used in this Agreement or any documents incorporated into this Agreement by reference, the following terms shall be defined as follows:
  - (a). Personal Identification Number (PIN). Assigned by ADEM following acceptance of this ESA, each PIN will consist of a unique sequence of alpha-numeric characters and when combined with the knowledge based security question answer shall constitute the electronic signature.
  - (b). Compromise. When the PIN is intentionally or unintentionally given, disclosed, delegated, or otherwise made available, including any theft or loss, to any other person or organization.
  - (c). Writing. Any document properly transmitted pursuant to this Agreement shall be considered to be a "writing" or "in writing".
6. **TRANSMISSION PROTOCOLS.** All Reports transmitted between the parties shall adhere to the Protocol(s) established by the ADEM for files to be received by the ADEM E2 Reporting System and in affect at the time of a transaction. The Department may modify such Protocol(s), as may be necessary, to promote or continue usability of the E2 Reporting System. The Department shall make available any such Protocol(s), changes to Protocols, or related implementation guidelines for reporting using the ADEM E2 Reporting System.
7. **SECURITY.** The parties shall take reasonable actions to implement and maintain security procedures necessary to ensure the protection of transmissions against the risk of unauthorized access, alteration, loss or destruction including, but not limited to: protecting the secrecy of passwords and electronic signatures and transmitting only files in an acceptable protocol.
  - (a). **Use of PIN.** Each Certifier shall be either the Responsible Official or a person identified as an authorized representative for signatory purposes by the Responsible Official for each facility, person, or other entity for which information is being reported. If a PIN has been compromised or where there is evidence of potential compromise, it will be automatically or manually suspended. In addition, ADEM will inactivate or revoke a PIN where the Certifier is no longer an authorized representative. Each Certifier expressly agrees that the Department may act immediately and unilaterally in any decision to

suspend, inactivate, revoke, or otherwise disallow use of a PIN by any Certifier, where the Department believes that such action is necessary to ensure the authenticity, integrity, or general security of transmissions or records, or where there are any actual or apparent violations of this ESA.

- (b). **Protection of PIN.** Each party must protect the security and confidentiality of any PIN from compromise and shall take all necessary steps to prevent its loss, disclosure, modification, or unauthorized use. The Certifier shall notify ADEM immediately, but, not later than one business day, if it has reason to believe the security of any PIN has been compromised and must request a change. If ADEM has reason to believe that PIN security has been compromised, the ADEM will consult with the Certifier, when practical, and initiate PIN changes where necessary. The Certifier is responsible for immediately notifying ADEM (in writing) of termination of employment, reassignment, or any other change or cessation of status as an authorized representative.
- 8. **SEVERABILITY.** Any provision of this Agreement which is determined to be invalid or unenforceable will be ineffective to the extent of such determination without invalidating the remaining provisions of this Agreement or affecting the validity or enforceability of such remaining provisions.
- 9. **INABILITY TO TRANSMIT OR FILE REPORTS ELECTRONICALLY.** No party shall be liable for any failure to perform its obligations in connection with any Electronic Transaction or any Electronic Document, where such failure results from any act or cause beyond such party's control which prevents such party from electronically transmitting or receiving any Documents, except that the Certifier is nonetheless required to submit records or information required by law via other means, as provided by applicable law and within the time period provided by such law.
- 10. **GOVERNING LAW.** This Agreement shall be governed by and interpreted in accordance with Chapter 6, Alabama Statutes, other applicable provisions of Laws of Alabama, and the Federal laws of the United States.

The ADEM and the Certifier have caused this Agreement to be properly executed on their behalf, as of the date the Certifier is issued a PIN, in accordance with and following acceptance of this agreement by the ADEM.

*(Type or print legibly)*

**Certifier:**

I, the undersigned, have the authority to enter into this Agreement under the applicable standards for \_\_\_\_\_ (Permittee) for

Permit #(s): \_\_\_\_\_.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Employer's Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

If the Certifier listed above does not meet the definition of Responsible Official as defined in ADEM Administrative Code or has not been previously appointed as an Authorized Representative, a Responsible Official must appoint the Certifier as an Authorized Representative below:

I, \_\_\_\_\_, authorize \_\_\_\_\_ to sign reports and other information (e.g. DMRs) as an Authorized Representative as defined in ADEM Administrative Code on my behalf for \_\_\_\_\_ (Permittee).

**Responsible Official Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Responsible Official Title:** \_\_\_\_\_



Telephone: (205) 384-5553  
Facsimile: (205) 295-3114 - Main Building  
(205) 295-3115 - Water Lab  
Web Address: [www.percengineering.com](http://www.percengineering.com)  
Pete Parrish Phone: (205)384-5553  
Fax: (205)384-9491  
E-mail: [pparrish@percengineering.com](mailto:pparrish@percengineering.com)

May 13, 2016

Michael Bergh  
Alabama Department of Environmental Management  
Mining and Natural Resources Section, Water Division  
1400 Coliseum Boulevard  
Montgomery, AL 36110-2400

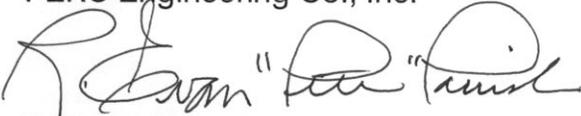
Subject: NPDES Permit AL0058076 Reissuance Application for Pyne Rock Corporation, Bessemer, Alabama

Dear Mr. Bergh:

Attached is the referenced application for re-issuance of NPDES Permit AL0058076 along with an application fee check in the amount of \$5,820.00.

Please contact me if you have any questions.

Sincerely,  
PERC Engineering Co., Inc.



R. Evan "Pete" Parrish

REP

Enclosures: Application  
Application Fee Check



**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)  
NPDES INDIVIDUAL PERMIT APPLICATION**

S 129035  
P 248503.1  
F 6036.2

**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, RECLAMATION, AND  
ASSOCIATED AREAS**

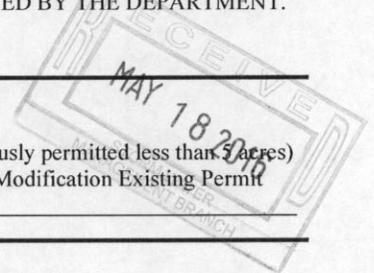
R#16-38348 M. Bergh \$5820.00

INSTRUCTIONS: PLEASE READ THE ACCOMPANYING INSTRUCTIONS CAREFULLY BEFORE COMPLETING THIS FORM. 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 IN INK ONLY.

**PURPOSE OF THIS APPLICATION**

- Initial Permit Application for New Facility   
  Initial Permit Application for Existing Facility (e.g. facility previously permitted less than 3 acres)  
 Modification of Existing Permit   
  Reissuance of Existing Permit   
  Reissuance & Modification Existing Permit  
 Reissuance & Transfer of Existing Permit   
  Revocation and Reissuance of Existing Permit   
  Other \_\_\_\_\_



**I. GENERAL INFORMATION**

NPDES Permit Number (Not applicable if initial permit application): <u>AL0058076</u>	County(s) in which Facility is Located: Jefferson
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Company/Permittee Name: Pyne Rock Corporation	Facility Name (e.g., Mine Name, Pit Name, etc.): Pyne Rock Reclamation	
Mailing Address of Company/Permittee: 129 4 <sup>th</sup> Street North	Physical Address of Facility (as near as possible to entrance): 1611 Hwy 150	
City: Bessemer                      State: AL                      Zip: 35020	City: Bessemer                      State: AL                      Zip: 35020	
Permittee Phone Number: (205) 424-2705	Permittee Fax Number: (205) 424-2707	Latitude and Longitude of entrance: 33°-22'23.24" N 86°54'40.32" W

Responsible Official (as described on page 13 of this application): Judy M. Mathis	Responsible Official Title: President and Secretary	
Mailing Address of Responsible Official: 129 4 <sup>th</sup> Street North	Physical Address of Responsible Official: 129 4 <sup>th</sup> Street North	
City: Bessemer                      State: AL                      Zip: 35020	City: Bessemer                      State: AL                      Zip: 35020	
Phone Number of Responsible Official: (205) 424-2705	Fax Number of Responsible Official: (205)424-2707	Email Address of Responsible Official: <a href="mailto:jmathis@moorecoal.com">jmathis@moorecoal.com</a>

Facility Contact: Judy M. Mathis	Facility Contact Title: President	
Physical Address of Facility Contact: 129 4 <sup>th</sup> Street North	Phone Number of Facility Contact: (205) 424-2705	Fax Number of Facility Contact: (205) 424-2707
City: Bessemer                      State: AL                      Zip: 35020	Email Address of Facility Contact: <a href="mailto:jmathis@moorecoal.com">jmathis@moorecoal.com</a>	

II. MEMBER INFORMATION

A. Identify the name, title/position, and unless waived in writing by the Department, the residence address of every officer, general partner, LLP partner, LLC member, investor, director, or person performing a function similar to a director, of the applicant, and each person who is the record or beneficial owner of 10 percent or more of any class of voting stock of the applicant, or any other responsible official(s) of the applicant with legal or decision making responsibility or authority for the facility:

Name:	Title/Position:	Physical Address of Residence (P.O. Box is Not Acceptable)
Judy Mathis	President and Secretary	113 Shades Crest Road, Birmingham, AL 35226
<del>Mary B. Moore</del>	<del>Shareholder</del>	<del>300 Ash Avenue, Bessemer, AL 35020</del>
Kerry M. Burrows	Shareholder	4916 Olive Oak Way, Carmichael, CA 95608

B. Other than the "Company/Permittee" listed in Part I., identify the name of each corporation, partnership, association, and single proprietorship for which any individual identified in Part II.A. is or was an officer, general partner, LLP partner, LLC member, investor, director, or individual performing a function similar to a director, or principal (10% or more) stockholder, that had an Alabama NPDES permit at any time during the five year (60 month) period immediately preceding the date on which this form is signed:

Name of Corporation, Partnership, Association, or Single Proprietorship:	Name of Individual from Part II.A.:	Title/Position in Corporation, Partnership, Association, or Single Proprietorship:
There are none.		
_____	_____	_____
_____	_____	_____

III. LEGAL STRUCTURE OF APPLICANT

A. Indicate the legal structure of the "Company/Permittee" listed in Part I:

Corporation  
  Association  
  Individual  
  Single Proprietorship  
  Partnership  
  LLP  
  LLC  
 Government Agency: \_\_\_\_\_  
  Other: \_\_\_\_\_

B. If not an individual or single proprietorship, is the "Company/Permittee" listed in Part I. properly registered and in good standing with the Alabama Secretary of State's Office? (If the answer is "No," attach a letter of explanation.)  
 Yes  
 No

C. Parent Corporation and Subsidiary Corporations of Applicant, if any: There are none.

D. Land Owner(s): Pyne Rock Corporation

E. Mining Sub-contractor(s)/Operator(s), if known: There are none.

IV. COMPLIANCE HISTORY

A. Has the applicant ever had any of the following:

	Yes	No
(1) An Alabama NPDES, SID, or UIC permit suspended or terminated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(2) An Alabama license to mine suspended or revoked?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(3) An Alabama or federal mining permit suspended or terminated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(4) A reclamation bond, or similar security deposited in lieu of a bond, or portion thereof, forfeited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(5) A bond or similar security deposited in lieu of a bond, or portion thereof, the purpose of which was to secure compliance with any requirement of the Alabama Water Improvement Commission or Alabama Department of Environmental Management, forfeited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

(If the response to any item of Part IV.A. is "Yes," attach a letter of explanation.)

B. Identify every Warning Letter, Notice of Violation (NOV), Administrative Action, or litigation issued to the applicant, parent corporation, subsidiary, general partner, LLP partner, or LLC member and filed by ADEM or EPA during the three year (36 months) period preceding the date on which this form is signed. Indicate the date of issuance, briefly describe alleged violations, list actions (if any) to abate alleged violations, and indicate date of final resolution:

There are none.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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 Industrial Relations (ADIR), or other agency, to the applicant, parent corporation, subsidiary, or LLC member for this facility whether presently effective, expired, suspended, revoked, or terminated:

NPDES Permit AL0058076

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

There are none.

VI. PROPOSED SCHEDULE

Anticipated Activity Commencement Date: 1982 Anticipated Activity Completion Date: 2031

VII. ACTIVITY DESCRIPTION & INFORMATION

A. Proposed Total Area of the Permitted Site: 38 acres Proposed Total Disturbed Area of the Permitted Site: 38 acres

B. Township(s), Range(s), Section(s): Township 19 South, Range 4 West, Sections 13 and 24

C. Detailed Directions to Site: From the intersection of Alabama Highway 150 and Interstate I-459 travel west on Highway 150 for approximately 4.9 miles to the facility entrance on the right.

D. Is/ will this facility:

- |   | Yes                                 | No                                  |
|---|-------------------------------------|-------------------------------------|
| (1) an existing facility which currently results in discharges to State waters?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| (2) a proposed facility which will result in a discharge to State waters?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (3) be located within any 100-year flood plain?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (4) discharge to Municipal Separate Storm Sewer?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (5) discharge to waters of or be located in the Coastal Zone?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (6) need/have ADEM UIC permit coverage?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (7) be located on Indian/ historically significant lands?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (8) need/have ADEM SID permit coverage?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (9) need/have ASMC permit coverage?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (10) need/have ADIR permit coverage?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (11) generate, treat, store, or dispose of hazardous or toxic waste ? (If "Yes," attach a detailed explanation.)        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (12) be located in or discharge to a Public Water Supply (PWS) watershed or be located within 1/2 mile of any PWS well? | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

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, prepared, 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 Chert	___ Sand &/or Gravel	___ Chalk	___ Talc	___ Crushed rock (other)
___ Bentonite	___ Industrial Sand	___ Marble	___ Shale &/or Common Clay	___ Sandstone
___ Coal	___ Kaolin	___ Coal fines/refuse recovery	___ Coal product, coke	___ Slag, Red Rock
___ Fire clay	___ Iron ore	___ Dimension stone	___ Phosphate rock	___ Granite
___ Bauxitic Clay	___ Bauxite Ore	___ Limestone, crushed limestone and dolomite		
___ Gold, other trace minerals: _____			X Other: <u>Iron ore waste recovery and reclamation 100%</u>	
___ Other: _____			___ Other: _____	
___ Other: _____			___ Other: _____	

**IX. PROPOSED ACTIVITY TO BE CONDUCTED**

A. Type(s) of activity presently conducted at applicant's existing facility or proposed to be conducted at facility (check all that apply):

<input type="checkbox"/> Surface mining	<input type="checkbox"/> Underground mining	<input type="checkbox"/> Quarrying	<input type="checkbox"/> Auger mining	<input type="checkbox"/> Hydraulic mining
<input type="checkbox"/> Within-bank mining	<input type="checkbox"/> Solution mining	<input checked="" type="checkbox"/> Mineral storing	<input type="checkbox"/> Lime production	<input type="checkbox"/> Cement production
<input type="checkbox"/> Synthetic fuel production	<input type="checkbox"/> Alternative fuels operation	<input checked="" type="checkbox"/> Mineral dry processing (crushing & screening)	<input type="checkbox"/> Mineral wet preparation	
<input type="checkbox"/> Other beneficiation & manufacturing operations		<input checked="" type="checkbox"/> Mineral loading	<input type="checkbox"/> Chemical processing or leaching	
<input type="checkbox"/> Construction related temporary borrow pits/areas		<input type="checkbox"/> Mineral transportation ___rail ___barge <input checked="" type="checkbox"/> truck		
<input type="checkbox"/> Preparation plant waste recovery		<input type="checkbox"/> Hydraulic mining, dredging, instream or between stream-bank mining		
<input checked="" type="checkbox"/> Grading, clearing, grubbing, etc.		<input type="checkbox"/> Pre-construction ponded water removal	<input checked="" type="checkbox"/> Excavation	
<input type="checkbox"/> Pre-mining logging or land clearing		<input type="checkbox"/> Waterbody relocation or other alteration	<input type="checkbox"/> Creek/stream crossings	
<input type="checkbox"/> Onsite construction debris or equipment storage/disposal		<input type="checkbox"/> Onsite mining debris or equipment storage/disposal		
<input checked="" type="checkbox"/> Reclamation of disturbed areas		<input type="checkbox"/> Chemicals used in process or wastewater treatment (coagulant, biocide, etc.)		
<input type="checkbox"/> Adjacent/associated asphalt/concrete plant(s)		<input type="checkbox"/> Low volume sewage treatment package plant		
<input type="checkbox"/> Other: _____				

B. Primary SIC Code: 1011 Description: Iron ore waste recovery from existing piles from a prior underground mining operation and reclamation of the property after removal

Secondary SIC Code(s): \_\_\_\_\_ Description: \_\_\_\_\_

C. Narrative Description of the Activity: Iron ore waste recovery and reclamation using mobile equipment.

**X. FUEL – CHEMICAL HANDLING, STORAGE & SPILL PREVENTION CONTROL & COUNTERMEASURES (SPCC) PLAN**

A. Will fuels, chemicals, compounds, or liquid waste be used or stored onsite?  Yes  No

B. If "Yes," identify the fuel, chemicals, compounds, or liquid waste and indicate the volume of each:

Volume	Contents	Volume	Contents	Volume	Contents
1,000 gallons	Diesel Fuel	_____ gallons	_____	_____ gallons	_____
_____ gallons	_____	_____ gallons	_____	_____ gallons	_____

C. If "Yes," a detailed SPCC Plan with acceptable format and content, including diagrams, must be attached to application in accordance with ADEM Admin. Code R. 335-6-6-.12(r). Unless waived in writing by the Department on a programmatic, categorical, or individual compound/chemical basis, Material Safety Data Sheets (MSDS) for chemicals/compounds used or proposed to be used at the facility must be included in the SPCC Plan submittal.

**XI. POLLUTION ABATEMENT & PREVENTION (PAP) PLAN**

A. For non-coal mining facilities, a PAP Plan in accordance with ADEM Admin. Code r. 335-6-9-.03 has been completed and is attached as part of this application.  Yes  No

B. For coal mining facilities, a detailed PAP Plan has been submitted to ASMC according to submittal procedures for ASMC regulated facilities.  Yes  No

(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: \_\_\_\_\_

**XII. 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 outline of legal boundary of entire property (property lines and lease boundaries)	(i) All surrounding unimproved/improved roads
(b) An outline of the facility	(j) High-tension power lines and railroad tracks
(c) All existing and proposed disturbed areas	(k) Buildings and structures, including fuel/water tanks
(d) Location of discharge areas	(l) Contour lines, township-range-section lines
(e) Proposed and existing discharge points	(m) Drainage patterns, swales, washes
(f) Perennial, intermittent, and ephemeral streams	(n) All drainage conveyance/treatment structures (ditches, berms, etc.)
(g) Lakes, springs, water wells, wetlands	(o) Any other pertinent or significant feature
(h) All known facility dirt/improved access/haul roads	





XVI. 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	4' x 2' Box Culvert	(10)	X	N/A	N/A	N/A	N/A	N/A

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:** Surface drainage from an iron ore waste recovery and reclamation operation.

XVII. PROPOSED NEW OR INCREASED DISCHARGES

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

- 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.

B. If "Yes," complete this Part (XVII.B.), Part XVIII, and XIX. **Attach additional sheets/documentation and supporting information as needed.**

(1) What environmental or public health problem will the discharge be correcting?

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

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(3) How much reduction in employment will the discharger be avoiding?

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(4) How much additional state or local taxes will the discharger be paying?

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(5) What public service to the community will the discharger be providing?

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(6) What economic or social benefit will the discharger be providing to the community?

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XVIII. ALTERNATIVES ANALYSIS – ADEM Form 311 3/02

Pursuant to ADEM Admin. Code Chapter 335-6-10, an evaluation of the discharge alternatives identified below has been completed and the following conclusions were reached. All proposed new or expanded discharges of pollutant(s) covered by the Individual NPDES permitting program are subject to the provisions of the antidegradation policy. As part of the permit application review process, the Department is required to determine, based on the applicant's demonstration, that the proposed new or increased discharge to Tier 2 waters is necessary for important economic or social development in the area in which the waters are located. As a part of this demonstration, a registered professional engineer (PE) licensed to practice in the State of Alabama must complete an evaluation of the discharge alternatives, to include calculation of total annualized project costs (Item XIX) for each technically feasible alternative. Technically feasible alternatives with total annualized pollution control project costs that are less than 110% of the preferred alternative total annualized pollution control project costs for the Tier 2 new or increased discharge proposal are considered viable alternatives. **Supporting documentation is attached, referenced, or otherwise handled as appropriate.**

Alternative	Viable	Non-Viable	Reason/Rationale For Indicating Non-Viable
1) Treatment/Discharge Proposed In This Application	X		
2) Land Application		X	Not feasible
3) Pretreatment/Discharge to POTW By SID Permit		X	Not feasible
4) Relocation of Discharge		X	Topography will not allow this method.
5) Reuse/Recycle – Pollution Prevention		X	There are no viable methods for reuse/recycle of the pollutants.
6) Other Process/Treatment Alternatives		X	There are no process/treatment alternatives.
7) Underground Injection By UIC Permit		X	Topography and geology will not allow this method.
8) Other Project Specific Alternative(s) Identified By the Applicant Or The ADEM			
9) Other Project Specific Alternative(s) Identified By the Applicant Or The ADEM			

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

XIX. CALCULATION OF TOTAL ANNUALIZED PROJECT COSTS FOR PRIVATE SECTOR PROJECTS - ADEM Form 313 8/02  
 (ADEM Form 312 3/02 - Public Sector Project is available upon request)

This item must be completed for each technically feasible alternative evaluated in Item XVIII. **Copy, complete, and attach additional blocks/sheets and supporting information as needed.**

Capital Costs of pollution control project to be expended or financed by applicant (Supplied by applicant)	\$ <u>25,000</u> (1)	* While actual payback schedules may differ across projects and companies, assume equal annual payments over a 10-year period for consistency in comparing projects.  ** Or refer to Appendix B (application information) for calculated annualization factors.  *** For recurring costs that occur less frequently than once a year, pro rate the cost over the relevant number of years (e.g., for pumps replaced once every three years, include one-third of the cost in each year).
Interest Rate for Financing (Expressed as a decimal)	<u>0.10</u> (i)	
Time Period of Financing (Assume 10 years *)	<u>10 years</u> (n)	
Annualization Factor ** = $\frac{i}{(1+i)^{10}-1} + i$ i = Interest Rate	<u>0.16275</u> (2)	
Annualized Capital Cost [Calculate: (1) x (2) ]	\$ <u>4,068</u> (3)	
Annual Cost of Operation & Maintenance (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration & replacement) ***	\$ <u>1,660</u> (4)	
<b>Total Annual Cost of Pollution Control Project [ (3) + (4) ]</b>	\$ <u>30,728</u> (5)	



XXI. POLLUTION ABATEMENT PLAN (PAP) REVIEW CHECKLIST

Y	N	N/A
---	---	-----

- PE Seal with License #
- Name and Address of Operator
- Legal Description of Facility

**General Information:**

- Name of Company
- Number of Employees
- Products to be Mined
- Hours of Operation
- Water Supply and Disposition

**Topographic Map:**

- Mine Location
- X1 Location of Prep Plant
- Location of Treatment Basins
- Location of Discharge Points
- Location of Adjacent Streams

**1"- 500' or Equivalent Facility Map:**

- Drainage Patterns
- Mining Details
- All Roads, Structures Detailed
- All Treatment Structures Detailed

**Detailed Design Diagrams:**

- Plan Views
- Cross-section Views
- Method of Diverting Runoff to Treatment Basins

**Narrative of Operations:**

- Raw Materials Defined
- Processes Defined
- Products Defined

**Schematic Diagram:**

- Points of Waste Origin
- Collection System
- Disposal System

**Post Treatment Quantity and Quality of Effluent:**

- Flow
- Suspended Solids
- Iron Concentration
- pH

**Description of Waste Treatment Facility:**

- Pre-Treatment Measures
- Recovery System
- Expected Life of Treatment Basin
- Schedule of Cleaning and/or abandonment

**Other:**

- Precipitation/Volume Calculations/Diagram Attached
- BMP Plan for Haul Roads
- Measures for Minimizing Impacts to Adjacent Stream i.e., Buffer Strips, Berms, etc.
- Methods for Minimizing Nonpoint Source Discharges
- Facility Closure Plans
- X2 PE Rationale(s) For Alternate Standards, Designs or Plans

**IDENTIFY AND PROVIDE DETAILED EXPLANATION FOR ANY "N" OR "N/A" RESPONSE(s):**

X1 No preparation plant will be located at this facility.
X2 No alternate standards, designs or plans are proposed.

XXII. INFORMATION

**Contact the Department prior to submittal with any questions or to request acceptable alternate content/format. Be advised that you are not authorized to commence regulated activity until this application can be processed, publicly noticed, and approval to proceed is received in writing from the Department.**

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

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 and 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 Industrial Relations (ADIR) 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. Send the completed form, supporting documentation, and the appropriate fees to:

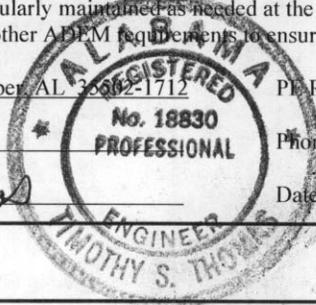
Water Division  
Alabama Department of Environmental Management  
Post Office Box 301463  
Montgomery, Alabama 36130-1463  
Phone: (334) 271-7823  
Fax: (334) 279-3051  
h2omail@adem.state.al.us  
www.adem.alabama.gov

XXIII. PROFESSIONAL ENGINEER (PE) CERTIFICATION

A detailed, comprehensive Pollution Abatement/Prevention Plan (PAP) must be prepared, signed, and certified by a professional engineer (PE), registered in the State of Alabama 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."

Address PERC Engineering Co., Inc., P. O. Box 1712, Jasper, AL 35092-1712 PE Registration # 18830-E  
Name and Title (type or print) Timothy S. Thomas, P. E. Phone Number (205) 384-5553  
Signature [Handwritten Signature] Date Signed 05-12-16



XXIV. 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) Judy M. Mathis Official Title President and Secretary  
Signature [Handwritten Signature] Date Signed 5/11/2016

\*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.



**LEGEND**

- Permit Boundary
- Surface Contour
- Sediment Basin
- Drainage Divide
- Property Line other than Forty Line
- Diversion Ditch/Berm
- Occupied Dwelling and Manufactured Housing
- Out Building (Barn, Shed, etc..)
- Haulroad
- County Road (Paved unless otherwise designated)
- Road (Private unless otherwise shown)

RECEIVED  
 JULY 2010  
 WATER DIVISION



**NPDES PERMIT MAP**  
**PYNE ROCK CORPORATION**  
**PYNE ROCK RECLAMATION OPERATION**  
**PERMIT NO. AL0058076**  
**SEC. 13 & 24, T19S, RW4**

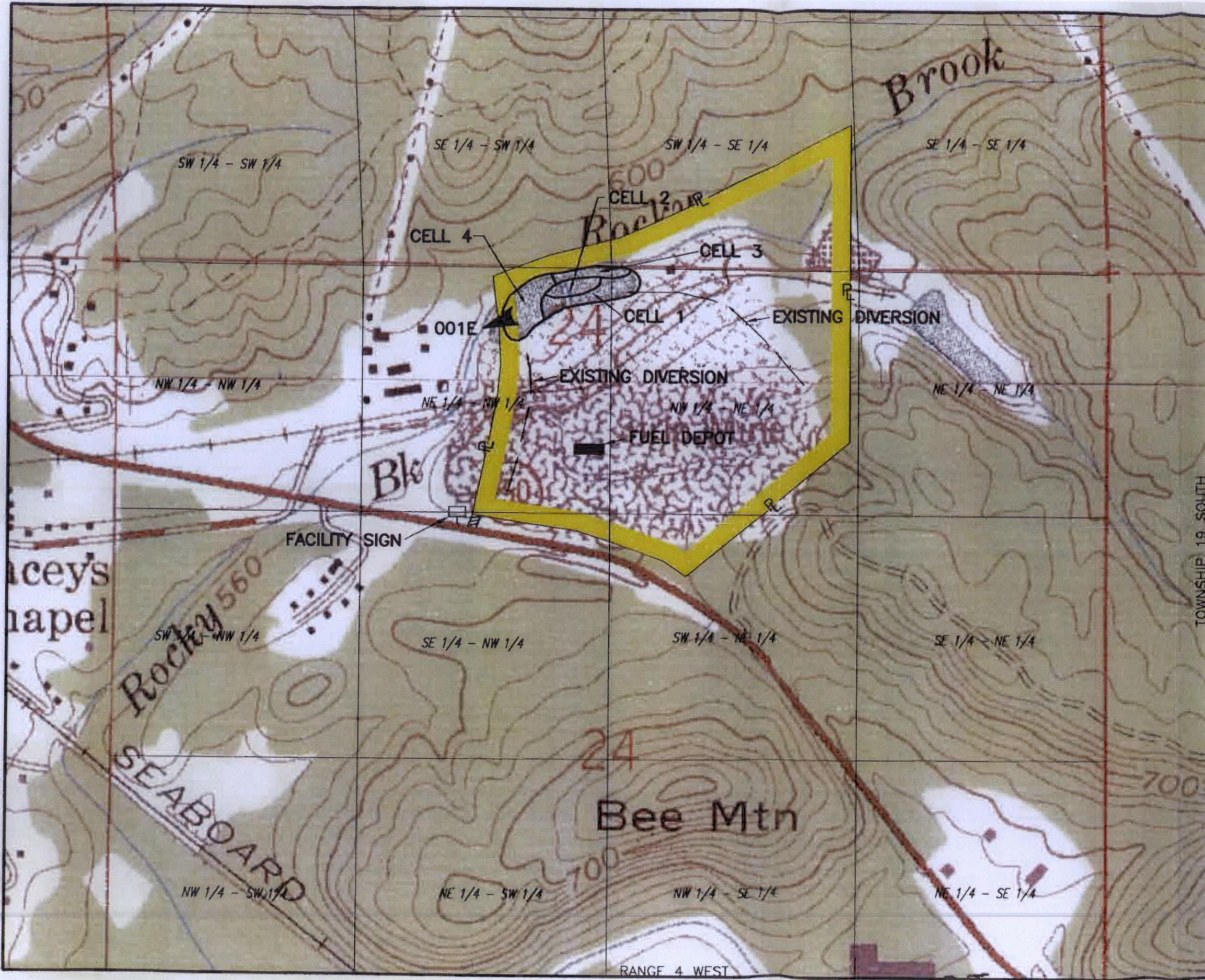
DRAWN BY: G.R.  
 DWG. NAME: PRC-NPDS-2010

DATE: 07-08-10

APPROVED BY: J.H.F.

SCALE: 1" = 2000'

PART OF GREENWOOD, ALABAMA AND BESSEMER,  
 ALABAMA UNITED STATES GEOLOGICAL SURVEY MAPS.



TOWNSHIP 19 SOUTH

**LEGEND**

- Permit Boundary
- Surface Contour
- Sediment Basin
- Drainage Divide
- Property Line other than Forty Line
- Diversion Ditch/Berm
- Occupied Dwelling and Manufactured Housing
- Out Building (Barn, Shed, etc.)
- Haulroad
- County Road (Paved unless otherwise designated)
- Road (Private unless otherwise shown)



**NPDES PERMIT MAP**  
**PYNE ROCK CORPORATION**  
**PYNE ROCK RECLAMATION OPERATION**  
**PERMIT NO. AL0058076**

DRAWN BY: J.J.H.	DATE: 11-14-05
DWG. NAME: HBFO-NPDS	
APPROVED BY: S.R.I.	SCALE: 1" = 500'

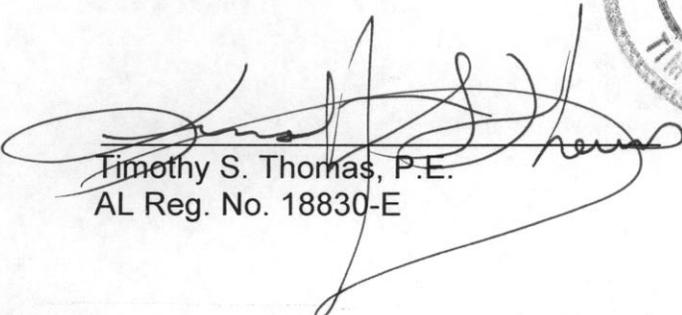
RANGE 4 WEST

SPILL PREVENTION AND COUNTER MEASURES PLAN  
FOR  
PYNE ROCK CORPORATION  
PYNE ROCK RECLAMATION OPERATION

Prepared By:

PERC Engineering Co., Inc.  
P.O. Box 1712  
Jasper, AL 35502  
Under The Direction of:



  
Timothy S. Thomas, P.E.  
AL Reg. No. 18830-E

05-12-16  
Date

## SPILL PREVENTION AND COUNTER MEASURES PLAN

This Spill Prevention and Counter Measures Plan will be maintained at Pyne Rock Corporation's Pyne Rock Reclamation Operation and will be presented to the Alabama Department of Environmental Management staff upon request.

Location: T19S, R4W, Sections 13 and 24  
Jefferson County, Alabama

Office Phone Number: (205) 424-2705

Facility Contact & Address: Judy M. Mathis, President and Secretary  
129 4<sup>th</sup> Street, North  
Bessemer, AL 35202  
Phone: (205)424-2705

- 1) One 1,000 gallon diesel fuel tank at the Pyne Rock Reclamation Operation is enclosed within a containment area made of concrete block and of sufficient capacity to contain a spill of 110% of the volume of the tank. The containment area is under roof to prevent rainfall from entering and collecting inside the containment area.
- 2) The containment area is located within the permit area that is not subject to flooding.
- 3) The nearest surface water of the State is Rocky Brook, as shown on the NPDES Permit Map.
- 4) If a major spill is encountered, all usable oil fuel will be immediately pumped into mobile fuel tanks for transport to another storage tank equipped with a containment structure. If the tank contents are contaminated with water or other substances that render that substance unusable, the oil product vendor will be contacted and the contaminated product will be shipped back to the refinery for the product to be recovered. Any unrecovered oil product remaining within the contaminant structure will be treated with an oil mop, hay, or other appropriate oil fuel absorbent material before dewatering occurs and disposed of as outlined above. After all the oil product has been recovered, any remaining water that exists (if any) will be drained from the contaminant structure and allowed to naturally drain through an approved downstream outfall prior to entering the waters of the State. The Alabama Department of Environmental Management Department staff will be contacted to document the spill. In addition, local Hazardous Materials Management professionals, as well as the local Fire Department will have been contacted and notified of the need to potentially respond to a spill at the facility in the unlikely event that a spill occurs which is catastrophic in nature and exceeds the capability of the facility staff to control and recover it.

- 5) All drainage from the containment area will drain into Outfall 001E. Any unusable fuel oil, contaminated soil and/or water will be disposed of in accordance with existing State and Federal regulations. In addition, a log will be maintained which indicates the date when the containment structure was dewatered, the person conducting the de-watering, and a brief description of the water (i.e., oily sheen, clear, slightly turbid, oily smell, etc.).
- 6) A written record shall be maintained by the facility's Custodian of Records of any spill which occurs, and the actions taken to properly dispose of all spilled material and the cleanup procedures.
- 7) All unloading of transport vehicles to fill the tanks will meet minimum requirements and regulations established by the Department of Transportation. The tanks will be attended while filling to prevent overflow, and to note visible leaks from seams, gaskets, valves, etc. The Operations Manager of the facility will make periodic inspections of the unloading area to detect signs of minor spills. If spills are evident the contaminated soil will be disposed of in accordance with existing State and Federal regulations.
- 8) All personnel who are in any way connected with unloading transport vehicles, use of fuel oil, maintenance of the facility, or responsible for storm water drainage and spill cleanup will be made familiar with this plan and a copy of this plan will be posted and readily available to all personnel at the facility.
- 9) Potential Sources of Spills
  - A) Tank or Tank Valve Rupture:  
Prevention- Properly maintain tanks, tank valves and fittings and keep them in good condition. Visually inspect tanks periodically for leaks, and tank foundations for cracks and unusual settling.
  - B) Tank Overfill:  
Prevention- Truck drivers should follow correct operating procedures when unloading diesel fuel and stay with equipment at all times during unloading operations. Key personnel should know the truck is in the area unloading fuel. Any spillage will be immediately cleaned-up or mitigated in accordance with this plan.
  - C) Hose Rupture During Unloading and Spillage From Hoses After Disconnection:  
Prevention- Periodic inspection of transport unloading hoses, the replacement of hoses as necessary, and use of the proper hose drainage procedure.

10) In The Event of An Oil Spill Call:

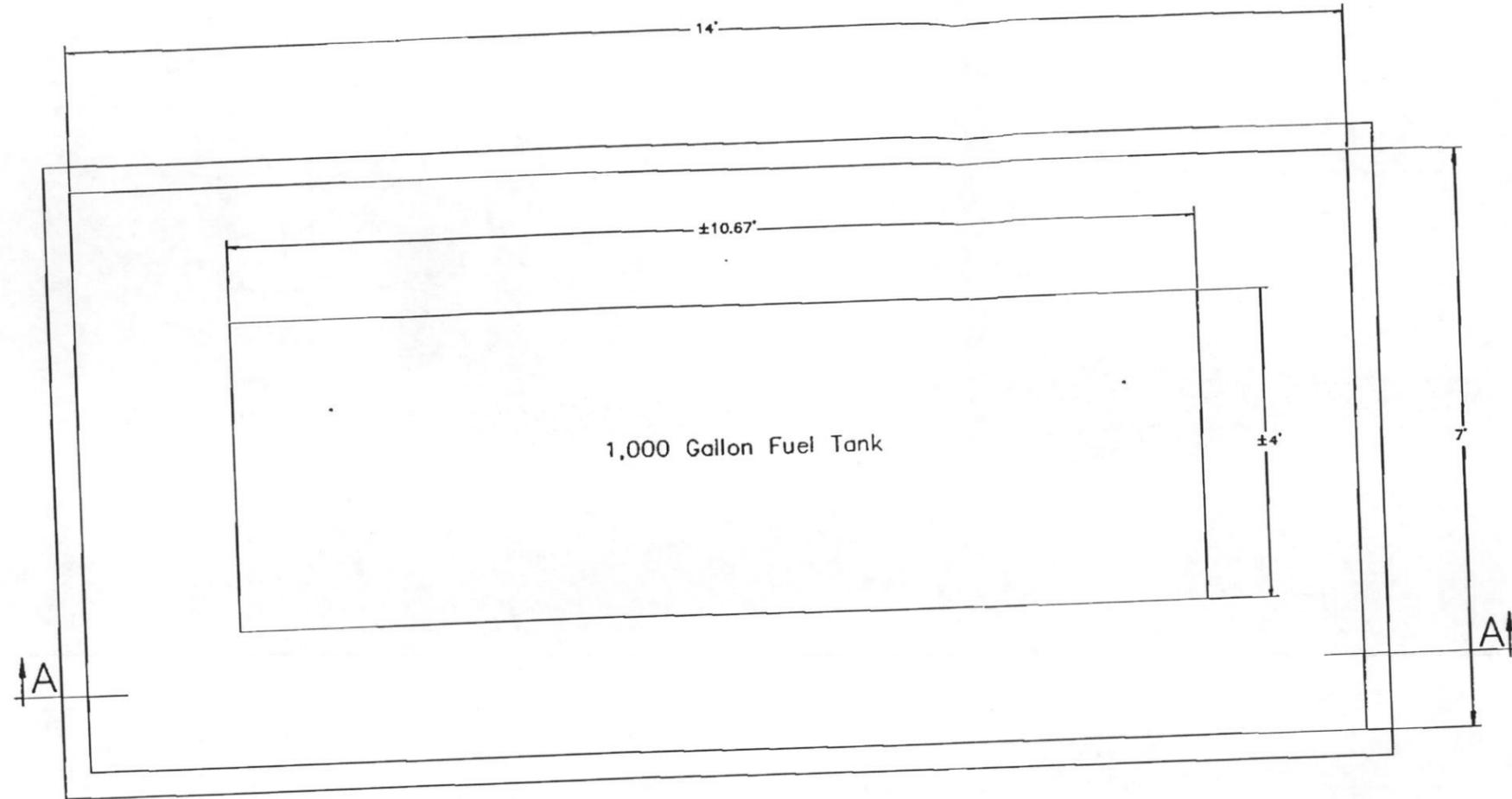
Alabama Department of Environmental Management  
Mining Unit  
Field Operations Division  
1400 Coliseum Boulevard  
Montgomery, AL 36110-2059  
Telephone: (334) 271-7700

National Response Center - Telephone: 1-800-424-8802

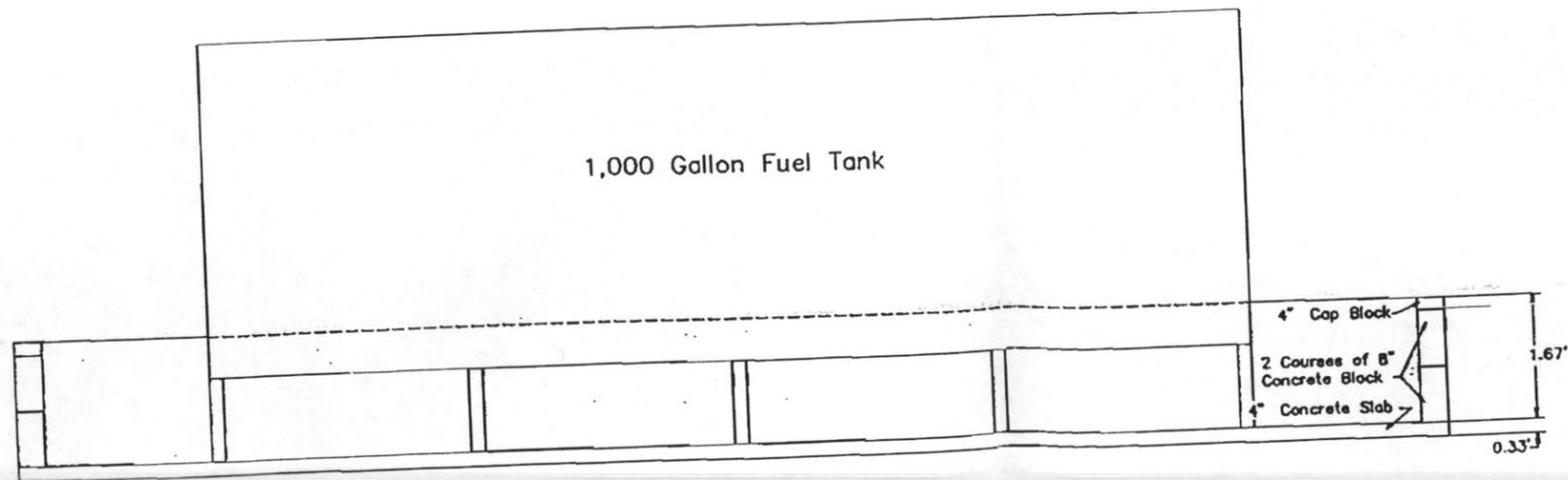
Emergency Management Agency - Telephone: 1-800-843-0699

Report the Following Information:

- 1) Name, address, and telephone number of person reporting spill.
- 2) Exact location of facility and spill.
- 3) Company name, number, and location.
- 4) Material spilled.
- 5) Estimated quantity.
- 6) Source of spill.
- 7) Cause of spill.
- 8) Nearest down-stream body of water to receive spill.
- 9) Discuss/advise regarding actions taken for containment and clean-up.



PLAN



SECTION A-A



**PERC**  
ENGINEERING CO. B'HAM, INC.

Pyne Rock Corporation  
Pyne Rock Reclamation Project  
Tank Containment Details

DRAWN BY: R.E.P.

DATE: May 2, 1988

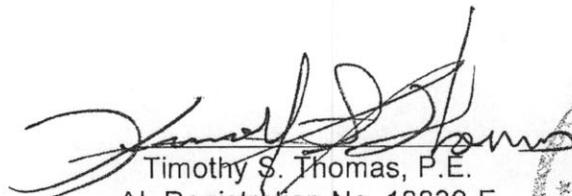
APPROVED BY:

SCALE: None

PROPOSED  
POLLUTION ABATEMENT PLAN  
FOR  
PYNE ROCK CORPORATION

Prepared By:

PERC Engineering Co., Inc.  
P.O. Box 1712  
Jasper, AL 35502  
Under The Direction of:

  
Timothy S. Thomas, P.E.  
AL Registration No. 18830-E  
10-5-2016



## I. INTRODUCTION

This pollution abatement plan is presented in two parts. The first part includes a brief narrative and general information, while the second part contains the design plans and design data. Design of the sedimentation control system is intended to address the format as outlined by the Alabama Department of Environmental Management (ADEM), Water Division, Rules and Regulations and to present the basis for the designs as further detailed in the design plans. Drawings as presented in the design plans were derived from Rules and Regulations of ADEM and from other generally accepted design data sources primarily from the U.S. Department of Agriculture Soil Conservation Service.

## II. OPERATOR

The operator of this facility is Pyne Rock Corporation whose business address is: Pyne Rock Corporation, 129 Fourth Street North, Bessemer, AL 35020.

The boundary of the mine site is shown on the site map provided later in this report.

## III. GENERAL INFORMATION

The Pyne Rock Corporation's Pyne Rock Reclamation project employs one person and operates one eight hour shift Monday through Friday of each week to reclaim the existing waste piles created by the Woodward Iron Company at this facility. This schedule may deviate as demand for the product increases and decreased throughout the year. The permit area is located within the SW 1/4 of the SE 1/4 of Section 13 and the E 1/2 of the NW 1/4 and the W 1/2 of the NE 1/4 of Section 24, all within Township 19 South, Range 4 West Jefferson County, Alabama, as found on the Greenwood and Bessemer Alabama U.S.G.S. Quadrangle maps.

## IV. TOPOGRAPHIC MAP

Design plans submitted with this document provide an existing contour map. The site plan layout shows the general layout of the permit area, sedimentation pond and the effluent discharge locations.

## V. METHOD FOR DIVERTING SURFACE RUNOFF

Drainage from the area is routed to the sedimentation pond through diversion channels or by berms. Berms and diversions were designed and constructed in accordance with the following guidelines for diversions.

## GUIDELINES FOR DIVERSION CHANNELS AND DIVERSION BERMS

1. Temporary diversions were constructed to safely pass the peak runoff from a 2-year, 6-hour precipitation event.
2. To protect fills and property and to avoid danger to public health and safety, permanent diversions were constructed to safely pass the peak runoff from a 10-year, 6-hour precipitation event. Permanent diversions were constructed with gently sloping banks stabilized by vegetation.
3. Diversions were designed, constructed, and maintained in a manner which prevents additional contributions of suspended solids to stream flow and to runoff outside the permit area, to the extent possible, using the best technology currently available. Appropriate sediment control measures for these diversions include, but are not limited to, maintenance of appropriate gradients, channel lining, revegetation, roughness structures, and detention ponds.
4. No diversions are located to increase the potential for land slides and no diversions are constructed on existing land slides.
5. When no longer needed, each temporary diversion will be removed and the affected land regraded, topsoiled, and revegetated.
6. Channel linings, when slopes are between 1-3 percent, consist of both perennial and annual grasses and when slopes are greater than 3 percent, are cut into non-erodible material or are riprap lined.
7. Freeboard provides protection for transition of flows and for critical areas such as swales and curves along the entire channel length.
8. Energy dissipators were installed, when necessary, at discharge points where natural streams and exit velocity of the diversion ditch flow are greater than that of the receiving stream.
9. The embankment or berm foundation area were cleared of all organic matter, all surfaces sloped to no steeper than 1v:1h and the entire foundation surface scarified.
10. The entire embankment or berm was compacted to 95% density, based on standard proctor as outlined in ASTM.
11. The material placed in the berm is free of sod, roots, stones over 6 inches in diameter, and other objectionable materials. The fill material was placed and spread over the entire fill area, starting at the lowest point of the foundation, in layers not to exceed 12 inches in thickness. Construction of the fill was undertaken only at such times as the moisture content of the fill material permits satisfactory

GUIDELINES FOR DIVERSION CHANNELS  
AND DIVERSION BERMS

compaction in accordance with paragraph 13.

12. The berm and all disturbed areas were seeded with both perennial and annual grasses to insure that erosion is minimized. Hay bales or riprap may be placed at the toe of the berm immediately upon completion of construction.
13. All berms are being examined quarterly for structural weakness, instability, erosion, or other hazardous conditions and maintenance performed as necessary.

## VI. RAW MATERIALS, PROCESSES AND PRODUCTS

The waste ore rock created by Woodward Iron Company is the only raw material that will be produced at the Pyne Rock Reclamation project. The waste ore rock is loaded from the existing stockpiles onto trucks and shipped offsite for its intended use. Reclamation operations will commence along the northwestern portion of the permit area within the vicinity of Outfall 001E within the NE 1/4 of the NW 1/4 of Section 24, Township 19 South, Range 4 West as shown on the attached 1"=500' scale location map. Operations will align in a north to south direction with advancement to the east. All surface water runoff from development disturbances will be allowed to drain to outfall 001E.

No processing of the waste ore rock will take place. Only the removal of the ore via a loader and truck system. Water taken from outfall 001E will be used as a source of dust suppression for the operation. There is no waste product produced from this operation.

## VII. WASTE TREATMENT FACILITIES

The treatment process for water quality control is by sedimentation ponds. A detailed design has been performed both regarding hydraulic performance and suspended solids removal. Details are presented in the design plans. Further detail of the design basis is presented at the end of this narrative where calculations are summarized. The ponds are earthen and will be constructed in accordance with the ADEM Rules and Regulations.

Removal of sediment will be initiated when the sediment accumulation reaches 60% of design capacity. This depth is noted on the plans.

Sediment Ponds will be designed and constructed in accordance with the following Pond Construction Criteria. Typical sections of proposed sediment pond construction are included in this application.

## VIII. SEDIMENT CONTROL FOR ROADS

The haul roads within the mining area drain to the sediment ponds. Haul roads outside the mining area will not have any sediment ponds, but will conform to ADEM guidelines on extended grades and will not involve any significant earthfills or cuts.

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

Included with the NPDES application preceding this pollution abatement plan is a drawing which has been reproduced from the U.S.G.S. quad sheet at a scale of 1" = 2000' which shows the adjacent streams.

## X. NON-POINT SOURCE POLLUTION

By grading the disturbed areas so that the drainage will carry runoff to the sediment pond, non-point source discharges of pollution from this project will be avoided.

## XI. PUBLIC WATER SUPPLY IMPOUNDMENT

The eventual receiving stream is Rocky Brook. There is no direct discharge of the effluent from the sedimentation ponds to an impoundment classified for public water supply.

## XII. SEDIMENTATION CONTROL

ADEM rules and regulations present guidelines which have been used for the design of the sedimentation ponds. Engineering calculations, tables, charts and the basis for the design are presented for review on the following pages in order to demonstrate compliance.

The embankment for sediment ponds (temporary and permanent) were designed and built using the following as minimum criteria:

1. The top of the dam is no less than 12 feet wide.
2. See design sheet for maximum and minimum embankment slopes.
3. The foundation and abutments for the impounding structure were designed to be stable under all conditions of construction and operation of the impoundments.
4. The dam was constructed with a cutoff trench based upon prudent engineering practices for the site. The cutoff is located on the dam centerline and of sufficient depth to extend into a relatively impervious material from which the core of the dam is also constructed.
5. The embankment foundation area was cleared of all organic matter, all surfaces sloped to no steeper than 1v:1h, and the entire foundation surface scarified.
6. The entire embankment and cutoff trench was compacted to 95 percent density, based on standard proctor as outlined in ASTM.
7. The material placed in the embankment was free of sod, roots, stones over 6 inches in diameter, and other objectionable materials. The fill material was placed and spread over the entire fill area, starting at the lowest point of the foundation, in layers not to exceed 12 inches in thickness. Construction of the fill was undertaken only at such times that the moisture content of the fill material would permit satisfactory compaction in accordance with paragraph 5.
8. The pool area of the pond is cleared of timber and large undergrowth.
9. The primary decant system is equipped with a device, or constructed, so as to insure that subsurface withdrawal is accomplished to prevent discharge of floating solids.
10. A splash pad or riprap may be required under the discharge of the primary decant system where necessary to insure that the discharge does not erode the

embankment.

11. The combination primary and secondary decant system was designed to safely carry the expected peak flow from a 25 year - 24 hour storm. The entire emergency overflow spillway channel is a stabilized channel and was stabilized upon completion of construction as specified within the detailed design plans using prudent engineering measures.
12. The settled embankment for the impoundment is a minimum of 1.5 foot above the maximum water elevation for the runoff from a 25 year - 24 hour.
13. The dam and all disturbed areas was seeded with both perennial and annual grasses, fertilized and mulched in order to insure erosion is minimized. Hay bales or riprap was placed at the toe of the dam immediately upon completion of construction.
14. The constructed height of the dam was increased a minimum of 5 percent over the design height to allow for settlement over the life of the embankment.
15. Final graded slopes of the entire impoundment area are as such to provide adequate safety and access for proposed water users.
16. All sediment ponds are inspected for stability and erosion until removal of the structure or release of the permit.
17. The embankment and spillway are being maintained by repairing any damage such as erosion, slope failure or spillway damage until removal of the structure or release of the permit.
18. Sediment will be removed from each pond when the accumulated sediment reaches the sediment storage volume as shown on the detailed design sheet.
19. Upon completion of mining, successful reclamation and effluent standards being met, each sediment pond not remaining as a permanent water impoundment will be dewatered in an environmentally safe manner (such as siphoning, pumping, etc.) and reclaimed to approximate original contours by the following procedure: A permanent diversion channel (designed for a 10 year - 24 hour precipitation event) shall be cut along the outer edge of the pond to re-route drainage around the pond and back through the stabilized spillway to allow reclamation of the sediment pond. The diversion channel shall be designed and grassed as per enclosed information. (See permanent diversion for pond disposal). Upon completion of the diversion channel the back slope of the dam shall be graded to a minimum 3H to 1V slope. The dewatered sediment pond area shall be seeded with some combination of the following: Fescue, bermuda, rye grass, canary grass and willows. After seeding the area shall be mulched. Any additional sediment or embankment material not used to meet original contour, if non-toxic, shall be spread in thin layers within the permit area and vegetated.

STORM WATER RUNOFF FROM DISTURBED  
AREAS, WASTE ORE RECOVERY AREA, STOCKPILE AREAS,  
RECLAMATION AND ROADS

OUTFALL 001E  
0.085 mgd

ROCKY BROOK



**PERC**  
ENGINEERING CO., INC.  
1908 - Jersey 78 West Center, Andover, NJ 07001  
- P.O. BOX 1712 - ANDOVER, ANDOVER, NJ 07002  
(201) 384-5553 - FAX (201) 393-3114

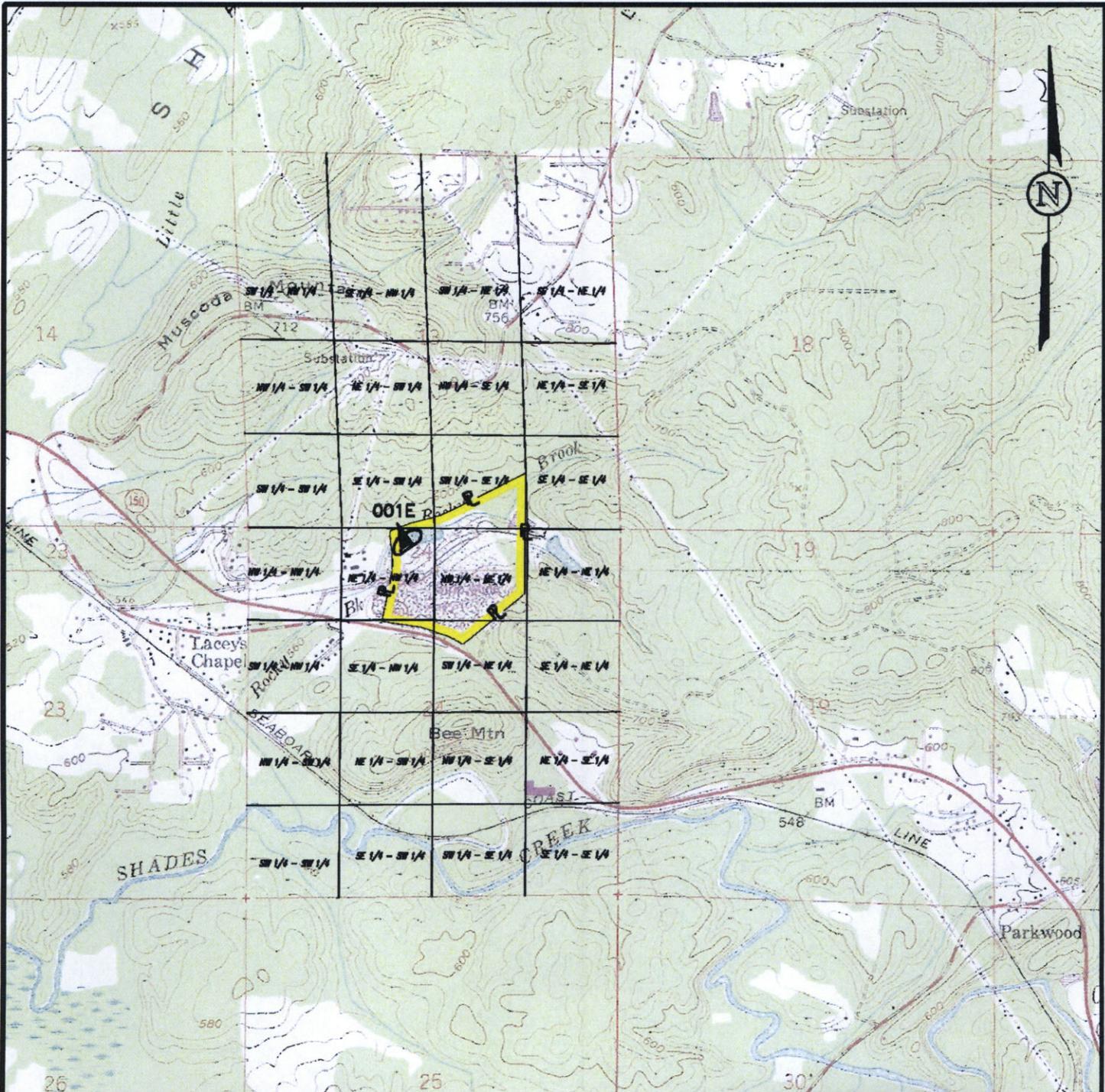
**PYNE ROCK CORPORATION  
PYNE ROCK RECLAMATION  
SCHEMATIC DIAGRAM**

DRAWN BY: J.J.H.  
DWG. NAME: HBFONPDS

DATE: 11-14-05

APPROVED BY: S.R.I.

SCALE: 1" = 2000'



**LEGEND**

- Permit Boundary
- Surface Contour
- Sediment Basin
- Drainage Divide
- Property Line other than Forty Line
- Diversion Ditch/Berm
- Occupied Dwelling and Manufactured Housing
- Out Building (Barn, Shed, etc.)
- Haulroad
- County Road (Paved unless otherwise designated)
- Road (Private unless otherwise shown)



**NPDES PERMIT MAP  
 PYNE ROCK CORPORATION  
 PYNE ROCK RECLAMATION OPERATION  
 PERMIT NO. AL0058076  
 SEC. 13 & 24, T19S, RW4**

DRAWN BY: J.J.H.  
 DWG. NAME: HBFONPDS

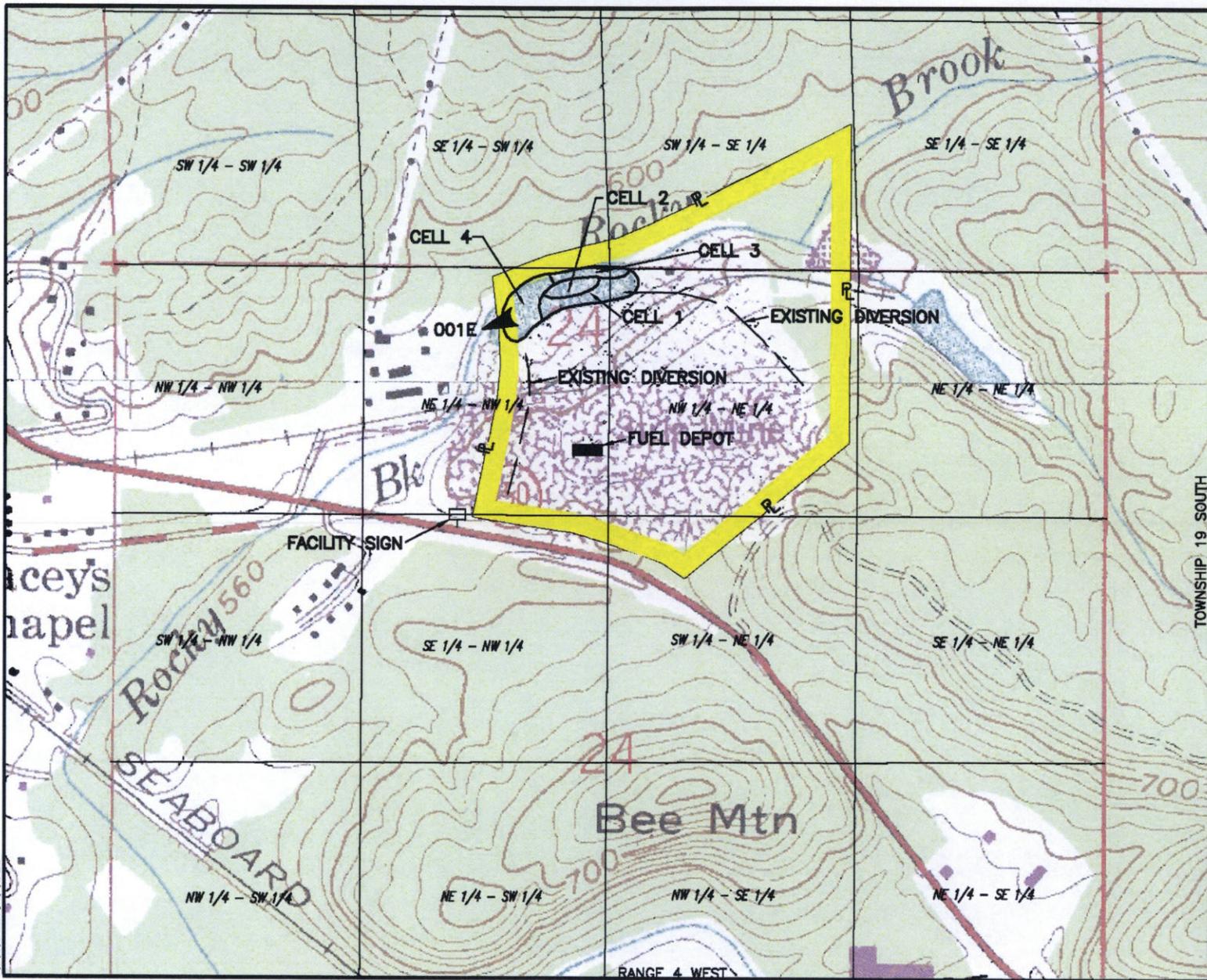
DATE: 11-14-05

APPROVED BY: S.R.I.

SCALE: 1" = 2000'

PART OF GREENWOOD, ALABAMA AND BESSEMER, ALABAMA UNITED STATES GEOLOGICAL SURVEY MAPS.

S:\MUNICIPAL\PERMITS\11/14/05\12-4



TOWNSHIP 19 SOUTH

**LEGEND**

- Permit Boundary
- Surface Contour
- Sediment Basin
- Drainage Divide
- Property Line other than Forty Line
- Diversion Ditch/Berm
- Occupied Dwelling and Manufactured Housing
- Out Building (Barn, Shed, etc.)
- Haulroad
- County Road (Paved unless otherwise designated)
- Road (Private unless otherwise shown)



**NPDES PERMIT MAP**  
**PYNE ROCK CORPORATION**  
**PYNE ROCK RECLAMATION OPERATION**  
**PERMIT NO. AL0058076**

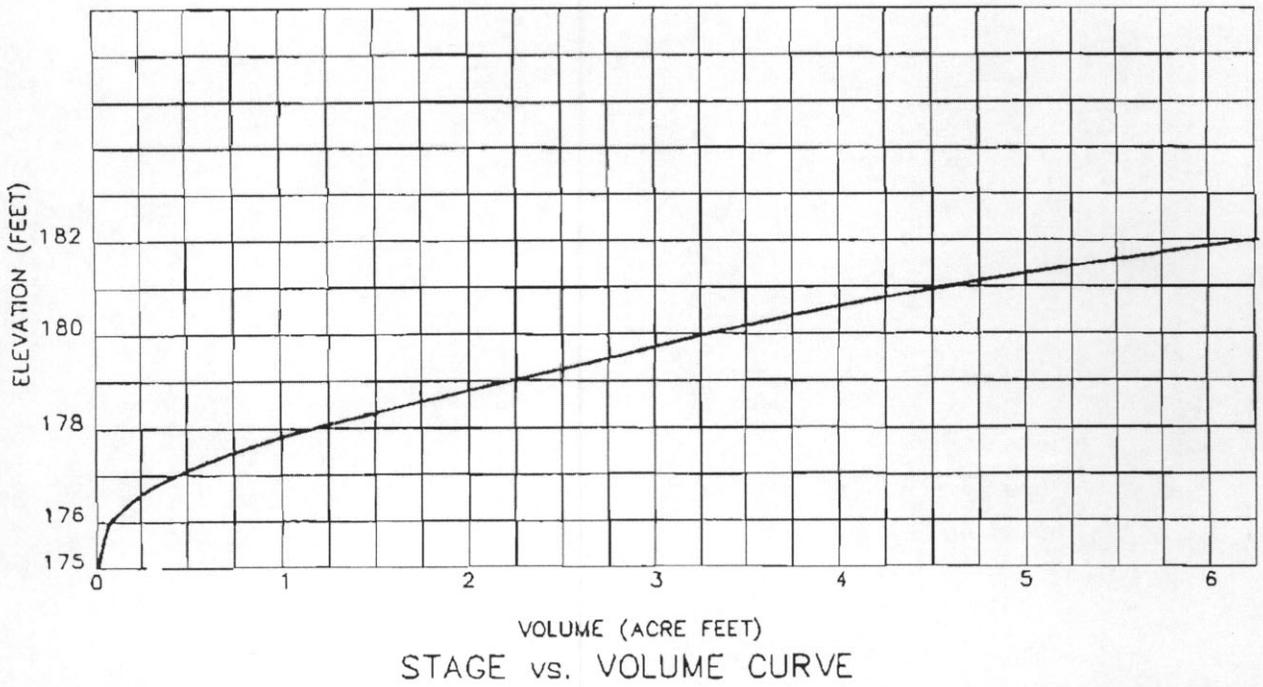
DRAWN BY: J.J.H.	DATE: 11-14-05
DWG. NAME: HBFO-NPDS	
APPROVED BY: S.R.L.	SCALE: 1" = 500'

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V:\Mining\Pyne Rock Corporation\PRC-NPDS 001E DC.dwg 09/28/16 09:47

### STORAGE COMPUTATION

ELEVATION (feet)	AREA (acres)	AVG. AREA (acres)	INTERVAL (feet)	STORAGE (ac.-ft.)	ACC. STORAGE (ac.-ft.)
175	0.000				0.000
		0.107	1	0.107	
176	0.214				0.107
		0.550	2	1.099	
178	0.885				1.206
		1.082	2	2.163	
180	1.278				3.369
		1.439	2	2.878	
182	1.600				6.247



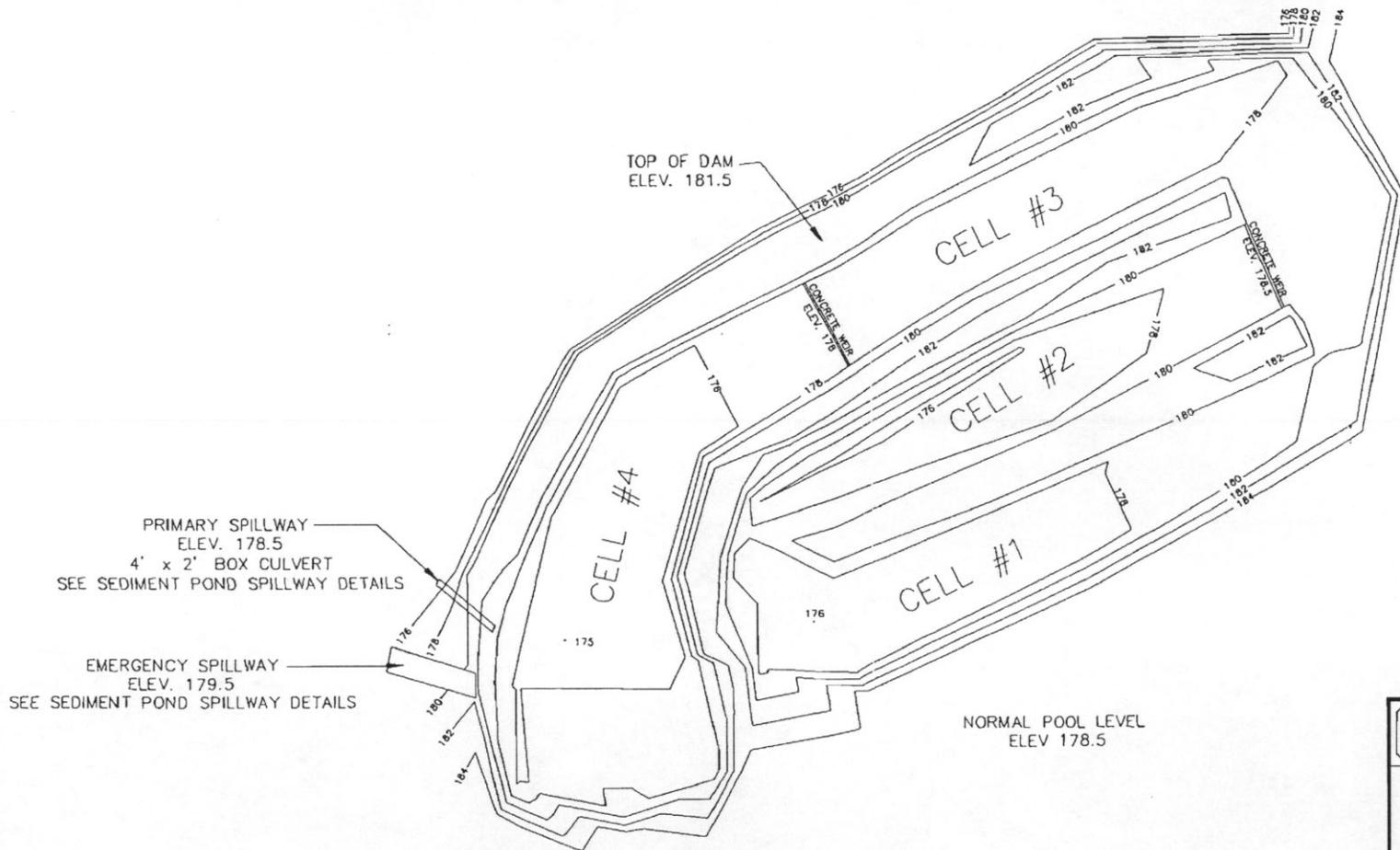
#### KEY BASIN PARAMETERS

DESIGN EVENT: 25 YEAR RECURRENCE, 24 HOUR DURATION  
 DRAINAGE AREA: 56.0 ACRES  
 DISTURBED AREA: 38.0 ACRES  
 SPILLWAY INLET: ELEVATION 178.5  
 MAXIMUM WATER LEVEL: ELEVATION 179.7  
 TOP OF INCISED BASIN: ELEVATION 181.5  
 DRY FREEBOARD: 1.5 FEET  
 STORAGE VOLUME AT SPILLWAY INLET: 1.7 ACRE FEET  
 SPILLWAY SYSTEM: See Sediment Pond Spillway Details

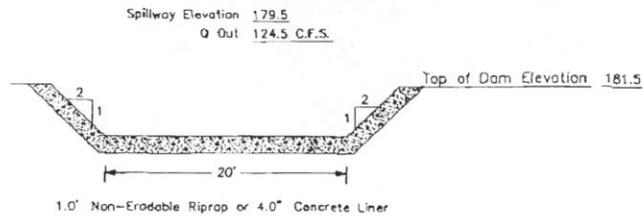
Note: Elevations are based on assumed datum.

	<b>PERC</b> ENGINEERING CO. B'HAM, INC.	
	<b>Pyne Rock Corporation</b> <b>Pyne Rock Reclamation Project</b> <b>Sediment Basin 001E</b> <b>Design Criteria</b>	
DRAWN BY: R.E.P	DATE: March 11, 1988	
APPROVED BY:	SCALE: NONE	

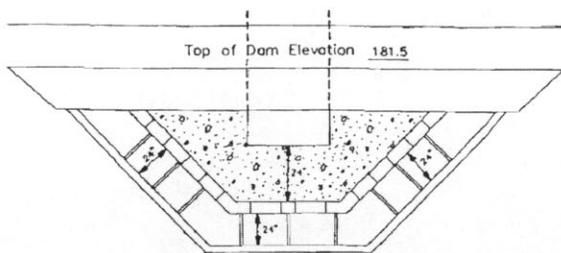
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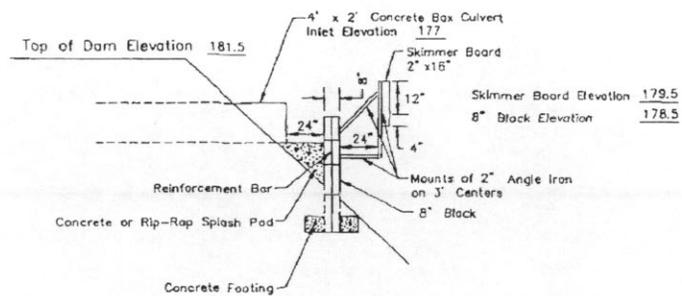
 <b>PERC</b> ENGINEERING CO. B'HAM, INC.	
<b>PYNE ROCK CORPORATION</b> <b>PYNE ROCK RECLAMATION PROJECT</b> <b>SEDIMENT POND 001E PLAN VIEW</b>	
DRAWN BY: G.C.	DATE: MARCH 11, 1988
APPROVED BY:	SCALE: 1" = 50'



EMERGENCY SPILLWAY



PLAN - PRIMARY SPILLWAY



CROSS SECTION - PRIMARY SPILLWAY

	<b>PERC</b> ENGINEERING CO. B'HAM, INC.	
	<b>PYNE ROCK CORPORATION</b> <b>PYNE ROCK RECLAMATION PROJECT</b> <b>SEDIMENT POND SPILLWAY DETAILS</b>	
DRAWN BY: G.C.	DATE: MARCH 11, 1988	
APPROVED BY:	SCALE: NONE	

## ENGINEERING DATA SUMMARY

Design of the sedimentation ponds and appurtenances.

1) Drainage Areas:

<u>Pond</u>	<u>Permitted Area</u>	<u>Drainage Area</u>
001E	38 Acres	56 Acres

2) Rainfall Frequency:

From TP-40 Rainfall Atlas of the United States:

1 yr. - 24 hr. precipitation = 3.5 inches

25 yr. - 24 hr. precipitation = 7.0 inches

3) Curve Number, CN Factor:

For disturbed areas, a hydrological soil group class of B has been assumed - from Table 2.2, Pg 82 of Applied Hydrology and Sedimentology for Disturbed Areas it was determined to use a CN value of 81 based on the cultivated land without conservation treatment listing and soil group B. This CN factor will be used for all disturbed areas.

For undisturbed areas, a hydrological soil group class of B has been assumed - from Table 2.2, Pg 82 of Applied Hydrology and Sedimentology for Disturbed Areas it was determined to use a CN value of 55 based on the woodland listing and soil group B. This CN factor will be used for all undisturbed areas.

4) Estimated Pre Treatment Quantity of Effluent:

From the SEDCAD3 design model produced by PERC Engineering Co., Inc., the peak discharge for the areas above the pond for a 1 yr. - 24 hr. and 25 yr. - 24 hr. storms are as follows:

<u>Pond</u>	<u>1 yr. - 24 hr. Discharge</u>	<u>25 yr. - 24 hr. Discharge</u>
001E	3.7 cfs	24.5 cfs

5) Estimated Post Treatment Quantity of Effluent:

The peak discharges from the ponds as determined by the SEDCAD design model produced by PERC Engineering Co., Inc. for a 1 yr. - 24 hr. and 25 yr. - 24 hr. storms are as follows:

<u>Pond</u>	<u>1 yr. - 24 hr. Discharge</u>	<u>25 yr. - 24 hr. Discharge</u>
001E	2.4 cfs	22.6 cfs

6) Sediment Storage Design:

Design of the sediment ponds was based on the SEDCAD3 design model report prepared by PERC Engineering Co., Inc., and supplementing the requirements of the ADEM Rules and Regulations.

- A) Required sediment storage = 0.25 Ac-Ft per acre of disturbed permitted land. The proposed minimum total storage as shown below is based on the fact that a maximum of 5 acres of disturbed permitted area will be routed directly to Outfall 001E at any given time.

Outfall 001E Cell No.	Minimum Total Storage	Primary Spillway Elevation
1	0.2 Ac-ft	178.5
2	0.2 Ac-ft	178.5
3	0.2 Ac-ft	178
4	1.1 Ac-ft	178.5

Outfall 001E has a total storage capacity of 1.7 Ac-ft.

- B) Pond Geometry: See the Planview Drawing.
- C) Elevation & Type of Spillway: A row of 8 inch concrete blocks with a 2 inch by 16 inch skimming board will be used in conjunction with an existing 2 foot by 4 foot concrete box culvert for the primary spillway. The 8 inch block invert elevation will be 178.5. A 20 foot wide trapezoidal spillway with side slopes of 2:1 will be used for the emergency spillway. The invert elevation of the emergency spillway will be 179.5. (See the Planview Drawing and Pond Design Sheet.)
- D) Elevation points where sedimentation accumulation approaches 60% of design capacity are as follows:

Outfall 001E Cell No.	Sediment Volume	Sediment Removal Level Elevation
1	0.2 Ac-ft	178.5
2	0.2 Ac-ft	178.5
3	0.2 Ac-ft	178
4	0.7 Ac-ft	178

Outfall 001E has a proposed total sediment storage capacity of 1.3 Ac-ft.

- E) Design Elevations:  
 Primary Spillway - 178.5  
 Emergency Spillway - 179.5  
 Maximum Water Elevation from 25 yr. - 24 hr Storm - 179.7  
 Top of Dam - 181.5  
 Minimum Freeboard - 1.5 feet. (See Pond Design Sheets)

7) Estimated Post Treatment Quality of Effluent:

Estimated Post Treatment Quality of Effluent is based on discharges from a 1 yr. - 24 hr. storm event.

pH	-	6.0 s.u. to 9.0 s.u.
Total Suspended Solids	-	129.1 lb/day
Total Iron	-	6.5 lb/day
Total Manganese	-	1.0 lb/day