

Alabama Department of Environmental Management
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September 7, 2017

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Justin Burggraff
President
Centennial Natural Resources, LLC
Post Office Box 2420
Jasper, AL 35502

RE: Draft Permit
No. 5 Mine
NPDES Permit No. AL0079936
Walker County (127)

Dear Mr. Burggraff:

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

Since the Department has made a tentative decision to reissue 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 Ketera Wright by email at ketera.wright@adem.alabama.gov or by phone at (334) 274-4231.

Sincerely,



Catherine A. McNeill, Chief

Mining and Natural Resource Section
Stormwater Management Branch
Water Division

CAM/kw File: DPER/39926

Enclosure

cc: Ketera Wright, ADEM
Environmental Protection Agency Region IV
Alabama Department of Conservation and Natural Resources
U.S. Fish and Wildlife Service
Alabama Historical Commission
Advisory Council on Historic Preservation
Alabama Surface Mining Commission



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM INDIVIDUAL PERMIT

PERMITTEE: Centennial Natural Resources, LLC
 Post Office Box 2420
 Jasper, AL 35502

FACILITY LOCATION: No. 5 Mine
 Plywood Plant Road
 Cordova, AL 35550
 Walker County
 T15S, R6W, Sections 9, 10, 11, 14, 15, 16, & 22

PERMIT NUMBER: AL0079936

DSN RECEIVING STREAM

- 001-1 Unnamed Tributary to Mulberry Fork of the Black Warrior River
- 003-1 Mulberry Fork of the Black Warrior River
- 005-1 Mulberry Fork of the Black Warrior River
- 007-1 Mulberry Fork of the Black Warrior River
- 009-1 Mulberry Fork of the Black Warrior River
- 011-1 Mulberry Fork of the Black Warrior River
- 013-1 Unnamed Tributary to Mulberry Fork of the Black Warrior River
- 015-1 Mulberry Fork of the Black Warrior River
- 017-1 Unnamed Tributary to Mulberry Fork of the Black Warrior River
- 019-1 Mulberry Fork of the Black Warrior River
- 021-1 Mulberry Fork of the Black Warrior River
- 023-1 Unnamed Tributary to Mulberry Fork of the Black Warrior River

DSN RECEIVING STREAM

- 002-1 Unnamed Tributary to Mulberry Fork of the Black Warrior River
- 004-1 Mulberry Fork of the Black Warrior River
- 006-1 Mulberry Fork of the Black Warrior River
- 008-1 Mulberry Fork of the Black Warrior River
- 010-1 Mulberry Fork of the Black Warrior River
- 012-1 Mulberry Fork of the Black Warrior River
- 014-1 Unnamed Tributary to Mulberry Fork of the Black Warrior River
- 016-1 Mulberry Fork of the Black Warrior River
- 018-1 Unnamed Tributary to Mulberry Fork of the Black Warrior River
- 020-1 Mulberry Fork of the Black Warrior River
- 022-1 Mulberry Fork of the Black Warrior River

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 ****

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

1. Active Mining Limitations and Monitoring Requirements

- a. 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 **Outfalls 001-1, 002-1, 013-1, 014-1, 017-1, 018-1, and 023-1** identified on Page 1 of this Permit and described more fully in the Permittee's application, if the outfalls have been constructed and certified. Except as provided in Parts I.A.2. and 3., discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations			Monitoring Requirements	
	Daily Minimum	Monthly Average	Daily Maximum	Sample Type	Measurement Frequency ¹
Specific Conductance 00095	-----	Report µS/cm	Report µS/cm	Grab	2/Month
Sulfate (As S) 00154	-----	Report mg/L	Report mg/L	Grab	2/Month
pH 00400	6.0 s.u.	-----	8.5 s.u.	Grab	2/Month
pH ² 00400	6.0 s.u.	-----	10.5 s.u.	Grab	2/Month
Solids, Total Suspended 00530	-----	35.0 mg/L	70.0 mg/L	Grab	2/Month
Iron, Total (As Fe) 01045	-----	3.0 mg/L	6.0 mg/L	Grab	2/Month
Manganese, Total (As Mn) ³ 01055	-----	2.0 mg/L	4.0 mg/L	Grab	2/Month
Flow, In Conduit or Thru Treatment Plant ⁴ 50050	-----	Report MGD	Report MGD	Instantaneous	2/Month
Toxicity, Ceriodaphnia Acute ⁵ 61425	-----	-----	0 pass(0)/fail(1)	Grab	1/Quarter
Toxicity, Ceriodaphnia Chronic ⁶ 61426	-----	-----	0 pass(0)/fail(1)	Grab	1/Quarter
Toxicity, Pimephales Acute ⁵ 61427	-----	-----	0 pass(0)/fail(1)	Grab	1/Quarter
Toxicity, Pimephales Chronic ⁶ 61428	-----	-----	0 pass(0)/fail(1)	Grab	1/Quarter
Solids, Total Dissolved (TDS) 70296	-----	Report mg/L	Report mg/L	Grab	1/Quarter

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

² See Part IV.D. for pH Exemption Discharge Limitations.

³ See Part IV.E. for Manganese Exemption Discharge Limitations.

⁴ Flow must be determined at the time of sample collection by direct measurement, calculation, or other method acceptable to the Department.

⁵ See Part IV.F. for Effluent Toxicity Limitations and Biomonitoring Requirements for Acute Toxicity.

⁶ See Part IV.G. for Effluent Toxicity Limitations and Biomonitoring Requirements for Chronic Toxicity.

- b. 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 **Outfalls 003-1 through 012-1, 015-1, 016-1, and 019-1 through 022-1** identified on Page 1 of this Permit and described more fully in the Permittee's application, if the outfalls have been constructed and certified. Except as provided in Parts I.A.2. and 3., 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 ⁷
Specific Conductance 00095	-----	Report µS/cm	Report µS/cm	Grab	2/Month
Sulfate (As S) 00154	-----	Report mg/L	Report mg/L	Grab	2/Month
pH 00400	6.0 s.u.	-----	9.0 s.u.	Grab	2/Month
pH ⁸ 00400	6.0 s.u.	-----	10.5 s.u.	Grab	2/Month
Solids, Total Suspended 00530	-----	35.0 mg/L	70.0 mg/L	Grab	2/Month
Iron, Total (As Fe) 01045	-----	3.0 mg/L	6.0 mg/L	Grab	2/Month
Manganese, Total (As Mn) ⁹ 01055	-----	2.0 mg/L	4.0 mg/L	Grab	2/Month
Flow, In Conduit or Thru Treatment Plant ¹⁰ 50050	-----	Report MGD	Report MGD	Instantaneous	2/Month
Toxicity, Ceriodaphnia Acute ¹¹ 61425	-----	-----	0 pass(0)/fail(1)	Grab	1/Quarter
Toxicity, Pimephales Acute ¹¹ 61427	-----	-----	0 pass(0)/fail(1)	Grab	1/Quarter
Solids, Total Dissolved (TDS) 70296	-----	Report mg/L	Report mg/L	Grab	1/Quarter

⁷ See Part I.C.2. for further measurement frequency requirements.

⁸ See Part IV.D. for pH Exemption Discharge Limitations.

⁹ See Part IV.E. for Manganese Exemption Discharge Limitations.

¹⁰ Flow must be determined at the time of sample collection by direct measurement, calculation, or other method acceptable to the Department.

¹¹ See Part IV.F. for Effluent Toxicity Limitations and Biomonitoring Requirements for Acute Toxicity.

2. Precipitation Exemption Limitations and Monitoring Requirements¹²

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. During periods of applicable 24-hour precipitation events for which the Permittee claims an exemption of standard mining limits as provided by Part IV.C., such discharge 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 ¹³
Specific Conductance 00095	-----	Report μS/cm	Report μS/cm	Grab	2/Month
Sulfate (As S) 00154	-----	Report mg/L	Report mg/L	Grab	2/Month
pH 00400	6.0 s.u.	-----	9.0 s.u.	Grab	2/Month
Solids, Settleable ¹⁴ 00545	-----	-----	0.5 mL/L	Grab	2/Month
Iron, Total (As Fe) ¹⁵ 01045	-----	-----	7.0 mg/L	Grab	2/Month
Flow, In Conduit or Thru Treatment Plant ¹⁶ 50050	-----	Report MGD	Report MGD	Instantaneous	2/Month
Solids, Total Dissolved (TDS) 70296	-----	Report mg/L	Report mg/L	Grab	1/Quarter

¹² See Part IV.C. for Precipitation Event Discharge Limitations.

¹³ See Part I.C.2. for further measurement frequency requirements.

¹⁴ The discharge limitation for Settleable Solids is not applicable for precipitation events greater than a 10-year, 24-hour precipitation event.

¹⁵ The discharge limitation for Total Iron (As Fe) is only applicable for precipitation events less than or equal to a 2-year, 24-hour precipitation event.

¹⁶ Flow must be determined at the time of sample collection by direct measurement, calculation, or other method acceptable to the Department.

3. Post Mining Limitations and Monitoring Requirements¹⁷

- a. 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 **Outfalls 001-1, 002-1, 013-1, 014-1, 017-1, 018-1, and 023-1** identified on Page 1 of this Permit and described more fully in the Permittee's application, if the outfalls have been constructed and certified. For those outfalls which the Department has granted written approval pursuant to Part IV.D., such discharge 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 ¹⁸
Specific Conductance 00095	-----	Report μS/cm	Report μS/cm	Grab	1/Month
Sulfate (As S) 00154	-----	Report mg/L	Report mg/L	Grab	1/Month
pH 00400	6.0 s.u.	-----	8.5 s.u.	Grab	1/Month
Solids, Settleable 00545	-----	-----	0.5 mL/L	Grab	1/Month
Flow, In Conduit or Thru Treatment Plant ¹⁹ 50050	-----	Report MGD	Report MGD	Instantaneous	1/Month
Solids, Total Dissolved (TDS) 70296	-----	Report mg/L	Report mg/L	Grab	1/Quarter

¹⁷ See Part IV.C. for Post-Mining Discharge Limitations.

¹⁸ See Part I.C.2. for further measurement frequency requirements.

¹⁹ Flow must be determined at the time of sample collection by direct measurement, calculation, or other method acceptable to the Department.

- b. 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 **Outfalls 003-1 through 012-1, 015-1, 016-1, and 019-1 through 022-1** identified on Page 1 of this Permit and described more fully in the Permittee's application, if the outfalls have been constructed and certified. For those outfalls which the Department has granted written approval pursuant to Part IV.D., such discharge 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 ²⁰
Specific Conductance 00095	-----	Report μS/cm	Report μS/cm	Grab	1/Month
Sulfate (As S) 00154	-----	Report mg/L	Report mg/L	Grab	1/Month
pH 00400	6.0 s.u.	-----	9.0 s.u.	Grab	1/Month
Solids, Settleable 00545	-----	-----	0.5 mL/L	Grab	1/Month
Flow, In Conduit or Thru Treatment Plant ²¹ 50050	-----	Report MGD	Report MGD	Instantaneous	1/Month
Solids, Total Dissolved (TDS) 70296	-----	Report mg/L	Report mg/L	Grab	1/Quarter

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 in accordance with plans and specifications approved by the ASMC, if applicable. This requirement shall not apply to pumped discharges from the underground works of underground coal mines where no surface structure is required by the ASMC, 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. 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

²⁰ See Part I.C.2. for further measurement frequency requirements.

²¹ Flow must be determined at the time of sample collection by direct measurement, calculation, or other method acceptable to the Department.

1. Sampling Schedule and Frequency

- c. Except as provided in Parts IV.B. and C., the Permittee shall collect samples of the discharge from each constructed and certified point source identified on Page 1 of this Permit and described more fully in the Permittee's application, at the frequency specified in Part I.A. Analysis of the samples shall be conducted for the parameters specified in Part I.A.
- d. For each permitted, constructed, and certified point source which results from direct pumped drainage from the underground works of an underground coal mine or from surface drainage, if the final effluent is pumped in order to discharge (e.g. incised ponds, old highwall cuts, old pit areas or depressions), at least one grab sample from the permitted point source shall be obtained and analyzed each quarterly (three month) monitoring period if a discharge occurs at any time during the quarterly monitoring period.
- e. 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 28th day of the month following the quarterly reporting period (i.e., on the 28th day of January, April, July, and October of each year).

- b. The Department utilizes a web-based electronic 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. Requirements for Outfall Certification Summary Submittal

The Permittee shall submit as an attachment to the certification required by Part I.B.1, an Outfall Certification Summary in a format approved or provided by the Department. The Outfall Certification Summary shall indicate whether each outfall identified on Page 1 of this Permit has been certified and, if so, it shall include the date for each certification as well as the latitude and longitude of the certified outfall. If any outfall identified on Page 1 of this Permit has received written approval from the Department pursuant to Part IV.C. of this Permit stating that the Permittee may utilize the Post-Mining Discharge Limitations specified in Part I.A.3., then the list of outfalls shall include the date of the Post-Mining Discharge Limitations approval. If any outfall identified on Page 1 of this Permit has been released from monitoring requirements as provided in Part I.D.4. of this Permit, then the list of outfalls shall include the date of the monitoring requirement release.

3. 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.3.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.3.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 Form 421 must be submitted to the Director in accordance with Parts I.D.3.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.

4. Reduction, Suspension, or Termination of Monitoring and/or Reporting Requirements

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) Unless waived in writing by the Department, the Permittee has been granted, in writing, a 100% Bond Release, by the Alabama Surface Mining Commission for all areas mined or disturbed in the drainage basin(s) associated with the discharge;
 - (3) The Permittee has certified to the Director that the 100% Bond Release has been granted by the Alabama Surface Mining Commission for all areas disturbed in the drainage basin(s) associated with the discharge;
 - (4) 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;
 - (5) 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;
 - (6) 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;
 - (7) The Permittee has certified that during the entire period covered by the monitoring data submitted, no chemical treatment of the discharge was provided;
 - (8) The Permittee's request has included the certification required by Part I.D.1.d. of this Permit; and
 - (9) The Permittee has certified to the Director in writing as part of the request, its compliance with (1) through (8) 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. Best Management Practices (BMPs)

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

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

materials which the Permittee may utilize to contain and to absorb fuel and chemical spills and leaks. The Permittee shall maintain sufficient amounts of such materials onsite or have sufficient amounts of such materials readily available to contain and/or absorb fuel and chemical spills and leaks. Soil contaminated by chemical spills, oil spills, etc., must be immediately cleaned up or be removed and disposed of in a manner consistent with all State and federal regulations.

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

3. 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:
 - (1) Name and general composition of biocide or chemical;
 - (2) 96-hour median tolerance limit data for organisms representative of the biota of the water(s) which the discharge(s) enter(s);
 - (3) Quantities to be used;
 - (4) Frequencies of use;
 - (5) Proposed discharge concentrations; and
 - (6) 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.

4. 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(s).

5. 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.

6. 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.

7. 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. Requirements for Metals, Cyanide, and Phenols Monitoring and Reporting

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

4. Automatic Expiration of Permits for New or Increased Discharges

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

5. Transfer of Permit

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

6. Groundwater

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

7. Property and Other Rights

This Permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, trespass, or any infringement of Federal, State, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the State or of the United States.

D. RESPONSIBILITIES

1. Duty to Comply

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

2. Change in Discharge

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

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

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

4. Compliance with Water Quality Standards and Other Provisions

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

5. Compliance with Statutes and Rules

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

6. Right of Entry and Inspection

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

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

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

- a. If the Permittee intends to continue to discharge beyond the expiration date of this Permit, the Permittee shall file with the Department a complete permit application for reissuance of this Permit at least 180 days prior to its expiration.
- 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 as 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 subject to penalties and/or imprisonment as provided by the AWPCA and/or the AEMA.

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. Acid or ferruginous mine drainage - means mine drainage which, before any treatment, either has a pH of less than 6 or a total iron concentration equal to or greater than 10 mg/l.
2. Alabama Environmental Management Act (AEMA) - means Code of Alabama 1975, §§22-22A-1 et. seq., as amended.
3. Alabama Water Pollution Control Act (AWPCA) - means Code of Alabama 1975, §§22-22-1 et. seq., as amended.

4. Alkaline mine drainage - means mine drainage which, before any treatment, has a pH equal to or greater than 6.0 and total iron concentration of less than 10 mg/l.
5. 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).
6. Arithmetic Mean - means the summation of the individual values of any set of values divided by the number of individual values.
7. BOD - means the five-day measure of the pollutant parameter biochemical oxygen demand
8. Bypass - means the intentional diversion of waste streams from any portion of a treatment facility.
9. CBOD - means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
10. Coal Mine - means an area, on or beneath land, used or disturbed in activities related to the extraction, removal, or recovery of coal from natural or artificial deposits, including active mining and reclamation.
11. Coal Preparation Plant - means a facility where coal is subjected to cleaning, concentrating, or other processing or preparation in order to separate coal from its impurities and then is loaded for transit to a consuming facility.
12. Coal Preparation Plant Associated Areas - means the coal preparation plant yards, immediate access roads, coal refuse piles and coal storage piles and facilities.
13. Coal Preparation Plant Water Circuit - means all pipes, channels, basins, tanks, and all other structures and equipment that convey, contain, treat, or process any water that is used in coal preparation processes within a coal preparation plant.
14. Coal Refuse Disposal Pile - means any coal refuse deposited on the earth and intended as permanent disposal or long-term storage (greater than 180 days) of such material, but does not include coal refuse deposited within the active mining area or coal refuse never removed from the active mining area.
15. Controlled Surface Mine Drainage – means any surface mine drainage that is pumped or siphoned from the active mining area.
16. 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.
17. Daily maximum - means the highest value of any individual sample result obtained during a day.
18. Daily minimum - means the lowest value of any individual sample result obtained during a day.
19. Day - means any consecutive 24-hour period.
20. Department - means the Alabama Department of Environmental Management.

21. Director - means the Director of the Department or his authorized representative or designee.
22. 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).
23. Discharge monitoring report (DMR) - means the form approved by the Director to accomplish monitoring report requirements of an NPDES permit.
24. DO - means dissolved oxygen.
25. E. coli – means the pollutant parameter Escherichia coli.
26. 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.
27. EPA - means the United States Environmental Protection Agency.
28. Federal Water Pollution Control Act (FWPCA) - means 33 U.S.C. §§1251 et. seq., as amended.
29. Flow – means the total volume of discharge in a 24-hour period.
30. 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).
31. 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.
32. 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.
33. 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.
34. mg/L - means milligrams per liter of discharge.
35. MGD - means million gallons per day.
36. 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.)

37. 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.
38. 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.
39. NH₃-N - means the pollutant parameter ammonia, measured as nitrogen.
40. 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.
41. Permit application - means forms and additional information that are required by ADEM Admin. Code r. 335-6-6-.08 and applicable permit fees.
42. 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).
43. 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.
44. Pollutant of Concern - means those pollutants for which a water body is listed as impaired or which contribute to the listed impairment.
45. 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.
46. 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.

47. 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".
48. 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.
49. Receiving Stream - means the "waters" receiving a "discharge" from a "point source".
50. 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.
51. 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.
52. TKN - means the pollutant parameter Total Kjeldahl Nitrogen.
53. TON - means the pollutant parameter Total Organic Nitrogen.
54. TRC - means Total Residual Chlorine.
55. TSS – means the pollutant parameter Total Suspended Solids
56. Total Year-to-Date discharge limitation - means the sum of the discharge mass flow rates of a pollutant on all previous days within a calendar year. For days when data has not been collected, the mass flow rates shall be assumed to be equal to the most recent calculated daily mass flow rate.
57. 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.
58. 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.
59. 24-hour precipitation event - means that amount of precipitation which occurs within any 24-hour period.
60. 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.
61. 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.
62. 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.
63. Week - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
64. 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.

PART IV SPECIAL REQUIREMENTS, RESTRICTIONS, AND LIMITATIONS

A. 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.

B. PRECIPITATION EVENT DISCHARGE LIMITATIONS

1. Monitoring for Claims of Precipitation Event Discharge Limitation Exemption

Any sample of discharge collected in accordance with Parts I.C.1.a. and b. for which the Permittee submits a claim of exemption pursuant to Part IV.B.2., shall be collected within 48 hours after the commencement of the 24-hour precipitation event and prior to the cessation of the discharge or increased discharge. The sample shall be analyzed for each effluent characteristic as specified in Part I.A.2. Within 24 to 36 hours after the cessation of the 24-hour precipitation event, the Permittee shall collect an additional sample of the discharge and shall analyze such sample for each effluent characteristic specified in Part I.A.1. of this Permit.

2. Precipitation Event Discharge Limitation Exemption Submittal

Excluding discharges of drainage from the underground workings of an underground coal mine which are not commingled with other drainage eligible for precipitation event discharge limitations, any discharge or increase in the volume of a discharge which is caused by an applicable 24-hour precipitation event as described in Part IV.B.3. and which occurs during or within 24-hours after such event, may be exempt from the discharge limitations specified in Part I.A. provided that the discharge is addressed in Parts IV.B.4. through 8. and the Permittee submits a written claim of exemption to the Director with the DMR required to be submitted by Part I.D. of this Permit, which shall contain:

- a. Persuasive evidence that the discharge or increase in the volume of a discharge was caused by an applicable 24-hour precipitation event;
- b. Persuasive evidence of the amount of precipitation occurring during the applicable 24-hour precipitation event;
- c. Persuasive evidence demonstrating the origin of the drainage causing a discharge;
- d. The day and time at which the 24-hour precipitation event commenced and ceased;
- e. The volume or amount in inches of the applicable 24-hour precipitation event; and
- f. The results of monitoring conducted pursuant to Part I.A. of this Permit, if required thereby.

3. Applicable 24-Hour Precipitation Events

Applicable 24-hour precipitation events include those that are greater than 1-year, 24-hour precipitation events or less than, equal to, or greater than 2-year, 24-hour precipitation events, and 10-year, 24-hour precipitation events.

4. 24-Hour Precipitation Event Greater Than a 1-Year, 24-Hour Precipitation Event, but Less Than a 10-Year, 24-Hour Precipitation Events

Discharge limitations listed in Part I.A.2. may apply to discharges of acid or ferruginous drainage from coal refuse disposal piles, provided that the Permittee has met the submittal requirements of Part IV.B.2., for any discharge or increase in the volume of a discharge caused by a 24-hour precipitation event greater than a 1-year, 24-hour precipitation event, but less than or equal to a 10-year, 24-hour precipitation event.

5. 24-Hour Precipitation Event Less Than or Equal to a 2-Year, 24-Hour Precipitation Event

Discharge limitations listed in Part I.A.2. may apply to discharges of drainage from acid or ferruginous mining areas (excluding discharges from steep slope mining areas, discharges from mountaintop removal operations, discharges from controlled surface mine, and discharges from underground workings of underground mines), provided that the Permittee has met the submittal requirements of Part IV.B.2., for any discharge or increase in the volume of a discharge caused by a 24-hour precipitation event less than or equal to a 2-year, 24-hour precipitation event.

6. 24-Hour Precipitation Event Greater Than a 2-Year, 24-Hour Precipitation Event, but Less Than a 10-Year, 24-Hour Precipitation Events

Discharge limitations listed in Part I.A.2. may apply to discharges of drainage from acid or ferruginous mining areas (excluding discharges from steep slope mining areas, discharges from mountaintop removal operations, discharges from controlled surface mine, and discharges from underground workings of underground mines), provided that the Permittee has met the submittal requirements of Part IV.B.2., for any discharge or increase in the volume of a discharge caused by a 24-hour precipitation event greater than a 2-year, 24-hour precipitation event, but less than or equal to a 10-year, 24-hour precipitation event.

7. 24-Hour Precipitation Event Less Than or Equal to a 10-Year, 24-Hour Precipitation Event

Discharge limitations listed in Part I.A.2. may apply to discharges of drainage from steep slope mining areas, discharges of drainage from mountaintop removal areas, discharges of alkaline drainage (excluding discharges from underground workings of underground mines and that are not commingled with other discharges), and discharges from coal preparation plant associated areas

(excluding acid or ferruginous mine drainage from coal refuse disposal piles), provided that the Permittee has met the submittal requirements of Part IV.B.2., for any discharge or increase in the volume of a discharge caused by a 24-hour precipitation event less than or equal to a 10-year, 24-hour precipitation event.

8. 24-Hour Precipitation Event Greater Than a 10-Year, 24-Hour Precipitation Event

Discharge limitations listed in Part I.A.2. may apply to discharges of drainage from alkaline, acid, or ferruginous mining areas, discharges of steep slope mining areas, discharges of drainage from mountaintop removal operations, discharges of drainage from coal preparation plants and associated areas, discharges of drainage from coal refuse piles, the underground workings of an underground coal mine which are commingled with other discharges eligible for precipitation event discharge limitations, and discharges from reclamation areas, provided that the Permittee has met the submittal requirements of Part IV.B.2., for any discharge or increase in the volume of a discharge caused by a 24-hour precipitation event greater than a 10-year, 24-hour precipitation event.

C. POST-MINING DISCHARGE LIMITATIONS

1. Excluding discharges from the underground workings of an underground coal mine, any discharge shall be exempt from the discharge limitations specified in Part I.A.1., provided that:
 - a. All mining in the drainage basin(s) associated with the discharge has ceased;
 - b. Revegetation has been established on all areas mined in the drainage basin(s) associated with the discharge;
 - c. The Permittee has been granted, in writing, a Phase II Bond Release, if applicable, by the ASMC for all areas mined in the drainage basin(s) associated with the discharge;
 - d. The Permittee has certified to the Director, in writing, its compliance with Parts IV.C.1.a. through c.; and
 - e. The Permittee's request for post-mining discharge limitations has been approved by the Department in writing.
2. Any discharge, which pursuant to Part IV.C.1. is exempt from the discharge limitations specified in Part I.A.1., shall be limited and monitored by the Permittee as specified in Part I.A.3.

D. pH EXEMPTION DISCHARGE LIMITATIONS

Where the application of neutralization and sedimentation treatment technology results in the Permittee's inability to comply with applicable total manganese discharge limitations, the daily maximum discharge limitation for pH shall be 10.5 s.u. However, the discharge shall not cause the in-stream pH values to deviate more than 1.0 s.u. from the normal or natural pH, nor be less than 6.0 s.u., nor greater than 8.5 s.u. Use of this exemption must be noted on the DMR Form when submitted for each eligible outfall. Documentation justifying the necessity for the exemption must be also be submitted at the time of the associated DMR submittal.

E. MANGANESE EXEMPTION DISCHARGE LIMITATIONS

Limitations and monitoring requirements for total manganese do not apply if the drainage, before any treatment, has a pH equal to or more than 6.0 s.u. and a total iron concentration of less than 10.0 mg/l. Use of this exemption must be noted on the Discharge Monitoring Report (DMR) form when submitted for each

eligible outfall. Documentation of alkaline mine drainage before treatment must also be submitted at the time of the associated DMR submittal.

F. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS FOR ACUTE TOXICITY

Except as provided below, the Permittee shall perform 48-hour acute toxicity screening tests on the discharges required to be tested for acute toxicity in Part I.A. of this Permit.

The Permittee may certify, in writing, that the activities at the site at the time of sample collection will result in representative discharges, and therefore perform the toxicity tests on only the samples collected from the representative outfalls. The certification must be signed by a responsible official of the Permittee as defined in ADEM Admin Code r. 335-6-6-.09 and include the following statement:

"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."

1. Test Requirements

- a. The tests shall be performed using undiluted effluent.
- b. Any test where survival in the effluent concentration is less than 90% and statistically lower than the control indicates acute toxicity and constitutes noncompliance with this Permit.

2. General Test Requirements

- a. A grab sample shall be obtained for use in above biomonitoring tests. The holding time for each sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-012 or most current edition or another control water selected by the Permittee and approved by the Department.
- b. Effluent toxicity tests in which the control survival is less than 90% or in which the other requirements of the EPA Test Procedure are not met shall be unacceptable and the Permittee shall rerun the tests as soon as practical within the monitoring period.
- c. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are reported with an explanation of the tests performed and results.
- d. Should results from five consecutive testing periods indicate that the effluent does not exhibit acute toxicity, the Permittee may request, in writing, that the Toxicity monitoring and reporting requirements be suspended. It remains the responsibility of the Permittee to comply with the Toxicity monitoring and reporting requirements until written authorization to suspend the monitoring and reporting is received by the Permittee from the Director.

3. Reporting Requirements

- a. The Permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).
- b. Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 6. of this part, an effluent toxicity report containing the information in Section 6. shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month in which the tests were performed.

4. Additional Testing Requirements

- a. If acute toxicity is indicated (noncompliance with permit limit), the Permittee shall perform two additional valid acute toxicity tests in accordance with these procedures. The toxicity tests shall be performed on new samples collected during the first discharge event after becoming aware of the acute toxicity. The additional samples shall be collected a minimum of 12 hours apart, or sooner if the discharge is not expected to continue for 12 hours. In the event that the discharge ceases prior to collection of the second additional sample, the sample shall be collected during the beginning of the next discharge event. The results of these tests shall be submitted no later than 28 days following the month in which the tests were performed. Additional testing sample collection and analysis timeframes may be extended, as necessary, to obtain the samples during discharges.
- b. After evaluation of the results of the additional tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The Permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols/guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-92/081, EPA/833/B-99/022 and/or EPA/600/6-91/005F, etc.).

5. Test Methods

The tests shall be performed in accordance with the latest edition of the “EPA Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms” and shall be performed using the fathead minnow (*Pimephales promelas*) and the cladoceran (*Ceriodaphnia dubia*).

6. Effluent Toxicity Testing Reports

The following information shall be submitted with each discharge monitoring report unless otherwise directed by the Department. The Department may at any time suspend or reinstate this requirement or may increase or decrease the frequency of submittals.

- a. Introduction
 - (1) Facility Name, location and county
 - (2) Permit number
 - (3) Toxicity testing requirements of permit
 - (4) Name of receiving water body
 - (5) Contract laboratory information (if tests are performed under contract)

- (i) Name of firm
 - (ii) Telephone number
 - (iii) Address
- (6) Objective of test
- b. Plant Operations
 - (1) Discharge operating schedule (if other than continuous)
 - (2) Volume of discharge during sample collection to include Mean daily discharge on sample collection date (MGD, CFS, GPM)
- c. Source of Effluent Water and Dilution Water
 - (1) Effluent samples
 - (i) Sample point
 - (ii) Sample collection dates and times
 - (iii) Sample collection method
 - (iv) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
 - (v) Sample temperature when received at the laboratory
 - (vi) Lapsed time from sample collection to delivery
 - (vii) Lapsed time from sample collection to test initiation
 - (2) Dilution Water samples
 - (i) Source
 - (ii) Collection date(s) and time(s) (where applicable)
 - (iii) Pretreatment (if applicable)
 - (iv) Physical and chemical characteristics (pH, hardness, water temperature, alkalinity, specific conductivity, etc.)
- d. Test Conditions
 - (1) Toxicity test method utilized
 - (2) End point(s) of test
 - (3) Deviations from referenced method, if any, and reason(s)
 - (4) Date and time test started

- (5) Date and time test terminated
 - (6) Type and volume of test chambers
 - (7) Volume of solution per chamber
 - (8) Number of organisms per test chamber
 - (9) Number of replicate test chambers per treatment
 - (10) Test temperature, pH and dissolved oxygen as recommended by the method (to include ranges)
 - (11) Feeding frequency, and amount and type of food
 - (12) Light intensity (mean)
- e. Test Organisms
- (1) Scientific name
 - (2) Life stage and age
 - (3) Source
 - (4) Disease treatment (if applicable)
- f. Quality Assurance
- (1) Reference toxicant utilized and source
 - (2) Date and time of most recent acute reference toxicant test(s), raw data, and current cusum chart(s)
 - (3) Results of reference toxicant test(s) (LC50, etc.), report concentration-response relationship and evaluate test sensitivity. The most recent reference toxicant test shall be conducted within 30-days of the routine.
 - (4) Physical and chemical methods utilized
- g. Results
- (1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
 - (2) Provide table of endpoints: LC50, NOAEC, Pass/Fail (as required in the applicable NPDES permit)
 - (3) Indicate statistical methods used to calculate endpoints
 - (4) Provide all physical and chemical data required by method
 - (5) Results of test(s) (LC50, NOAEC, Pass/Fail, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD)

- h. Conclusions and Recommendations
 - (1) Relationship between test endpoints and permit limits
 - (2) Action to be taken

G. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS FOR CHRONIC TOXICITY

Except as provided below, the Permittee shall perform short-term chronic toxicity tests on the discharges required to be tested for chronic toxicity by Part I.A. of this permit.

The Permittee may certify, in writing, that the activities at the site at the time of sample collection will result in representative discharges, and therefore perform the toxicity tests on only the samples collected from the representative outfalls. The certification must be signed by a responsible official of the Permittee as defined in ADEM Admin Code r. 335-6-6-.09 and include the following statement:

"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."

1. Test Requirements (Screening Test)

- a. The tests shall be performed using undiluted effluent for Outfalls 001-1, 002-1, 013-1, 014-1, 017-1, 018-1, and 023-1.
- b. Any test result that shows a statistically significant reduction in survival, growth or reproduction between the control and the test at the 95% confidence level indicate chronic toxicity and constitute noncompliance with this permit.

2. General Test Requirements

- a. A grab sample shall be obtained for use in the above biomonitoring tests and collected every other day so that the laboratory receives water samples on the first, third and fifth day of the seven-day test period. The holding time for each sample shall not exceed 36 hours, unless sample collection was not possible due to discharge cessation. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-013 or the most current edition or another control water selected by the Permittee and approved by the Department.
- b. Should the discharge cease prior to the third grab sample on the fifth day of discharge, the chronic test shall be terminated early and the code "NODI=F" shall be reported on the DMR to indicate insufficient flow. A report of insufficient flow shall not indicate noncompliance with the chronic toxicity testing requirements.
- c. Effluent toxicity tests in which the control survival is less than 80%, *P. promelas* dry weight per surviving control organism is less than 0.25 mg, Ceriodaphnia number of young per surviving control organism is less than 15, Ceriodaphnia reproduction where

less than 60% of surviving control females produce three broods or in which the other requirements of the EPA Test Procedure are not met shall be unacceptable and the Permittee shall rerun the tests as soon as practical within the monitoring period.

- d. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are reported with an explanation of the tests performed and results.
- e. Should results from five consecutive testing periods indicate that the effluent does not exhibit chronic toxicity, the Permittee may request, in writing, that the Toxicity monitoring and reporting requirements be suspended. It remains the responsibility of the Permittee to comply with the Toxicity monitoring and reporting requirements until written authorization to suspend the monitoring and reporting is received by the Permittee from the Director.

3. Reporting Requirements

- a. The Permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).
- b. Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 6. of this part, an effluent toxicity report containing the information in Section 6. shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month in which the tests were performed.

4. Additional Testing Requirements

- a. If chronic toxicity is indicated (noncompliance with permit limit), the Permittee shall perform two additional valid chronic toxicity tests in accordance with these procedures. The toxicity tests shall be performed on new samples collected during the first discharge event after becoming aware of the chronic toxicity. The additional samples shall be collected a minimum of 12 hours apart, or sooner if the discharge is not expected to continue for 12 hours. In the event that the discharge ceases prior to collection of the second additional sample, the sample shall be collected during the beginning of the next discharge event. The results of these tests shall be submitted no later than 28 days following the month in which the tests were performed. Additional testing sample collection and analysis timeframes may be extended, as necessary, to obtain the samples during discharges.
- b. After evaluation of the results of the additional tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The Permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols/guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-92/081, EPA/833/B-99/022 and/or EPA/600/6-91/005F, etc.).

5. Test Methods

The tests shall be performed in accordance with the latest edition of the "EPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms." The Larval Survival and Growth Test, Methods 1000.0, shall be used for the fathead minnow (*Pimephales promelas*) test and the Survival and Reproduction Test, Method 1002.0, shall be used for the cladoceran (*Ceriodaphnia dubia*) test.

6. Effluent Toxicity Testing Reports

The following information shall be submitted with each discharge monitoring report unless otherwise directed by the Department. The Department may at any times suspend or reinstate this requirement or may decrease or increase the frequency of submittals.

a. Introduction

- (1) Facility name, location and county
- (2) Permit number
- (3) Toxicity testing requirements of permit
- (4) Name of receiving water body
- (5) Contract laboratory information (if tests are performed under contract)
 - (i) Name of firm
 - (ii) Telephone number
 - (iii) Address
- (6) Objective of test

b. Plant Operations

- (1) Discharge Operating schedule (if other than continuous)
- (2) Volume of discharge during sample collection to include Mean daily discharge on sample collection dates (MGD, CFS, GPM)
- (3) Design flow of treatment facility at time of sampling

c. Source of Effluent and Dilution Water

- (1) Effluent samples
 - (i) Sampling point
 - (ii) Sample collection dates and times
 - (iii) Sample collection method
 - (iv) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
 - (v) Lapsed time from sample collection to delivery
 - (vi) Lapsed time from sample collection to test initiation

- (vii) Sample temperature when received at the laboratory
- (2) Dilution Water
 - (i) Source
 - (ii) Collection/preparation date(s) and time(s)
 - (iii) Pretreatment (if applicable)
 - (iv) Physical and chemical characteristics (water temperature, pH, alkalinity, hardness, specific conductance, etc.)
- d. Test Conditions
 - (1) Toxicity test method utilized
 - (2) End point(s) of test
 - (3) Deviations from referenced method, if any, and reason(s)
 - (4) Date and time test started
 - (5) Date and time test terminated
 - (6) Type and volume of test chambers
 - (7) Volume of solution per chamber
 - (8) Number of organisms per test chamber
 - (9) Number of replicate test chambers per treatment
 - (10) Test temperature, pH and dissolved oxygen as recommended by the method (to include ranges)
 - (11) Specify if aeration was needed
 - (12) Feeding frequency, amount and type of food
 - (13) Specify if (and how) pH control measures were implemented
 - (14) Light intensity (mean)
- e. Test Organisms
 - (1) Scientific name
 - (2) Life stage and age
 - (3) Source
 - (4) Disease(s) treatment (if applicable)
- f. Quality Assurance

- (1) Reference toxicant utilized and source
 - (2) Date and time of most recent chronic reference toxicant test(s), raw data and current control chart(s). The most recent chronic reference toxicant test shall be conducted within 30 days of the routine.
 - (3) Dilution water utilized in reference toxicant test
 - (4) Results of reference toxicant test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration-response relationship and evaluate test sensitivity
 - (5) Physical and chemical methods utilized
- g. Results
- (1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
 - (2) Provide table of endpoints: NOECs, IC25s, PASS/FAIL, etc. (as required in the applicable NPDES permit)
 - (3) Indicate statistical methods used to calculate endpoints
 - (4) Provide all physical and chemical data required by method
 - (5) Results of test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD) calculated for sublethal endpoints determined by hypothesis testing.
- h. Conclusions and Recommendations
- (1) Relationship between test endpoints and permit limits
 - (2) Actions to be taken

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)
OUTFALL CERTIFICATION SUMMARY**

PERMITTEE NAME: Centennial Natural Resources, LLC
 FACILITY NAME: No. 5 Mine
 NPDES PERMIT NO: AL0079936
 ASMC PERMIT NO: _____
 COUNTY: Walker County

Outfall Number	Is Outfall Certified?	Date of Certification	Outfall Latitude and Longitude	Post-Mining Limit Approval Date	Date of ADEM Monitoring Release
001-1	YES NO				
002-1	YES NO				
003-1	YES NO				
004-1	YES NO				
005-1	YES NO				
006-1	YES NO				
007-1	YES NO				
008-1	YES NO				
009-1	YES NO				
010-1	YES NO				
011-1	YES NO				
012-1	YES NO				
013-1	YES NO				
014-1	YES NO				
015-1	YES NO				
016-1	YES NO				
017-1	YES NO				
018-1	YES NO				
019-1	YES NO				
020-1	YES NO				
021-1	YES NO				
022-1	YES NO				
023-1	YES NO				

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.

 Name and Title (Print) Signature Date

Responsible Official Duly Authorized Representative

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION**

NPDES INDIVIDUAL PERMIT RATIONALE

Company Name: Centennial Natural Resources, LLC
Facility Name: No. 5 Mine
County: Walker
Permit Number: AL0079936
Prepared by: Ketera Wright
Date: August 21, 2017
Receiving Waters: Mulberry Fork of the Black Warrior River, Unnamed Tributary to Mulberry Fork of the Black Warrior River
Permit Coverage: New Source Coal Mine and Associated Areas
SIC Code: 1221

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

This proposed permit covers a new source coal mine, dry preparation, transportation and storage, and associated areas.

This proposed permit authorizes treated discharges into stream segments, other State waters, or local watersheds that currently have a water quality use classification of Public Water Supply (PWS) and Fish & 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 PWS or F&W classifications.

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 streams.

The active discharge limitations for the daily maximum (at Outfalls 003-1 through 012-1, 015-1, 016-1, and 019-1 through 022-1 only) and minimum of pH, and the monthly average and daily maximum of Total Suspended Solids (TSS), Total Iron as Fe, and Total Manganese as Mn are based on the New Source Performance Standards (NSPS) Effluent Limit Guidelines (ELGs) found in 40 CFR Part 434.35 for acid or ferruginous mine drainage.

However, the Permittee may submit documentation that discharges from the site are alkaline mine drainage (*i.e.*, the drainage prior to treatment has a pH equal to or more than 6.0 s.u. and a Total Fe concentration of less than 10.0 mg/L). Part IV.E. of the proposed permit provides that limitations and monitoring requirements for Total Manganese as Mn do not apply if the Permittee has provided the documentation of alkaline mine drainage. In such a case, the active mining discharge limitations for the daily maximum and minimum of pH and Total Iron as Fe are based on the NSPS ELGs found in 40 CFR Part 434.45 for alkaline mine drainage.

The instream water quality standards for pH in streams classified as F&W are 6.0 – 8.5 s.u. per ADEM Admin. Code r. 335-6-10-.09. However, a daily maximum pH limit of 9.0 s.u. is allowed by the Department for discharges that have a low discharge/stream flow ratio. Information provided in the Permittee's application shows that discharges from all outfalls may occur during low flow conditions in the receiving stream when the discharge/stream flow ratio may be high. Therefore, due to the lack of adequate background dilution from the receiving stream for Outfalls 001-1, 002-1, 013-1, 014-1, 017-1, 018-1, and 023-1 the daily maximum pH limitation will be 8.5 s.u. Conversely, Outfalls 003-1 through 012-1, 015-1, 016-1, and 019-1 through 022-1 discharge directly to

Mulberry Fork. It is the opinion of the Department that the background flow from Mulberry Fork will provide enough dilution to allow for a daily maximum pH of 9.0 s.u. Regardless, the discharges shall not cause the in-stream pH to deviate more than 1.0 s.u. from the normal or natural pH, nor be less than 6.0 s.u. nor greater than 8.5 s.u.

The ELGs of 40 CFR Part 434.62 allow the pH level in the final discharge to exceed 9.0 s.u. when neutralization and sedimentation treatment technology results in the Permittee's inability to comply with the applicable total manganese limitations. The acidity and metals composition of each discharge is unique and sometimes a pH value of 10.5 is necessary for the removal of manganese. However, the discharge shall not cause the in-stream pH to deviate more than 1.0 s.u. from the normal or natural pH, nor be less than 6.0 s.u., nor greater than 8.5 s.u. in accordance with ADEM Admin. Code r. 335-6-10-.09.

Post-mining discharge limitations are included in addition to the active mining and precipitation event discharge limitations. The post-mining discharge limitations are based on 40 CFR Part 434, Subpart E. This permit is more restrictive than the BAT Guidelines in that the Permittee, in order to qualify for the post-mining discharge limitations, must have received a Phase II Bond Release from the Alabama Surface Mining Commission for all areas mined in the drainage basin(s) associated with the discharge. The reason a Phase II Bond Release is required for post-mining limitations rather than a Phase I Bond Release is that topsoil replacement and the commencement of revegetation are frequently important factors in controlling the effluent quality from a coal mine. The Department has determined that tying the post-mining discharge limitations to the Phase II Bond Release will effectively protect water quality in Alabama as it relates to coal mining.

The precipitation event discharge limitations for the daily minimum and maximum for pH and the daily maximums for Total Iron as Fe and Settleable Solids are afforded under certain conditions and do not apply automatically. These alternative technology based limits are based on the ELGs for precipitation events found in 40 CFR Part 434.63.

Additional effluent monitoring for Specific Conductance, Sulfate as S, Total Dissolved Solids (TDS), and Acute and Chronic (for Outfalls 001-1, 002-1, 013-1, 014-1, 017-1, 018-1, and 023-1 only) Whole Effluent Toxicity (WET) testing is required so that future determinations can be made as to whether or not a reasonable potential to cause or contribute to an excursion of numeric or narrative WQS exists from this and similar discharges.

The applicant has, in accordance with 40 CFR Part 122.21 and their NPDES permit application, submitted representative effluent and background stream data for metals, cyanide, and total phenols as part of the application. The representative effluent data was obtained from Outfall 001-1 at the nearby Burton Mine (AL0068888) on March 15, 2017. The stream data was obtained in Mulberry Fork on March 15, 2017. The Department has acknowledged that the other Part A, B, and C pollutants listed in EPA Form 2C and 2D are not believed to be present in the waste stream due to the processes involved in the mining activity. Therefore, testing for the other Part A, B, and C pollutants listed in EPA Form 2C and 2D is not required. The Department has reviewed available data in ALAWADR, ADEM's water quality database, and found nothing to contradict the data submitted by the applicant.

The Department completed a reasonable potential analysis (RPA) of the discharges based on the laboratory data provided in the application and Hydrologic Monitoring Reports previously submitted to ASMC. The RPA indicates whether or not pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream WQS. Based on the analytical data submitted by the Permittee, the RPA indicates that there was no reasonable potential for instream WQS to be exceeded.

Because the representative laboratory data submitted by the Applicant and used by the Department in completing the RPA came from a different mining operation, Part II.C.3. of the proposed permit requires the submittal of effluent data for metals, cyanide, and total phenols from No. 5 Mine within six months of the effective date of the permit. If no discharges occur within the first six months, the data is required to be submitted within six months of the first discharge. The permit may be reopened if necessary to address any new information resulting from the submittal of the new discharge data.

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.

In accordance with ADEM Admin. Code r. 335-6-3-.07 the design professional engineer (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.

The Pollution Abatement/Prevention (PAP) plan for this facility has been prepared by a 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. By Memorandum of Understanding with the Alabama Surface Mining Commission (ASMC) the PAP for coal operations is reviewed/approved by ASMC. 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.

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 § 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.

The applicant is not proposing discharges into a stream segment or other State water that is included on Alabama's current CWA §303(d) list.

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

The applicant is not proposing 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.

Facility Name: Centennial Natural Resources, LLC - No. 5 Mine

NPDES No.: AL0079936

Outfalls 001-1, 002-1, 013-1, 014-1, 017-1, 018-1, & 023-1^{1,2,3}

Freshwater PWS classification.															Freshwater Acute ($\mu\text{g/l}$) $Q_c = 1\text{Q}10$				Freshwater Chronic ($\mu\text{g/l}$) $Q_c = 7\text{Q}10$				Human Health Consumption Fish & Water ($\mu\text{g/l}$) Carcinogen $Q_c = \text{Annual Average}$ Non-Carcinogen $Q_c = 7\text{Q}10$				Human Health Consumption Fish only ($\mu\text{g/l}$) Carcinogen $Q_c = \text{Annual Average}$ Non-Carcinogen $Q_c = 7\text{Q}10$			
ID	Pollutant	RP?	Carcinogen yes	Background Instream (Cs) Daily Max ²	Max Daily Discharge as reported by Applicant ⁴ (C_{daily})	Water Quality Criteria (C _c)	Draft Permit Limit (C_{draft})	20% of Draft Permit Limit	RP?	Background Instream (Cs) Monthly Ave ⁵	Avg Daily Discharge as reported by Applicant ⁴ (C_{daily})	Water Quality Criteria (C _c)	Draft Permit Limit (C_{draft})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C _c)	Draft Permit Limit (C_d)	20% of Draft Permit Limit	RP?	Water Quality Criteria (C _c)	Draft Permit Limit (C_d)	20% of Draft Permit Limit	RP?							
1	Antimony			0	0	-	-	-	No	0	0	-	-	-	-	5.52E+00	5.52E+00	1.10E+00	No	3.73E+02	3.73E+02	7.47E+01	No							
2	Arsenic		YES	0.49	0	592.334	592.334	118.466899	No	0.17	0	261.324	261.324	52.264808	No	2.10E-01	3.46E-01	6.92E-02	No	5.28E-01	1.75E+00	3.50E-01	No							
3	Beryllium			0	0	-	-	-	No	0	0	-	-	-	-	-	-	-	-	-	-	-	-							
4	Cadmium			0.08	0	8.533	8.533	1.70654934	No	0.08	0	1.042	1.042	0.2084715	No	-	-	-	-	-	-	-	-							
5	Chromium/ Chromium III			0	0	2713.159	2713.159	542.63188	No	0	0	352.926	352.926	70.585259	No	-	-	-	-	-	-	-	-							
6	Chromium/ Chromium VI			0	0	16.000	16.000	3.2	No	0	0	11.000	11.000	2.2	No	-	-	-	-	-	-	-	-							
7	Copper			2.01	0	34.637	34.637	6.92737797	No	1.24	0	23.082	23.082	4.6163667	No	3.35E+03	3.35E+03	6.70E+02	No	3.35E+03	3.35E+03	6.70E+02	No							
8	Lead			0.85	0	138.290	138.290	27.6579793	No	0.53	0	5.389	5.389	1.0777917	No	-	-	-	-	-	-	-	-							
9	Mercury			0	0	2.400	2.400	0.48	No	0	0	0.012	0.012	0.0024	No	1.39E-01	1.39E-01	2.78E-02	No	1.40E-01	1.40E-01	2.81E-02	No							
10	Nickel			0	0	927.200	927.200	185.439913	No	0	0	102.983	102.983	20.596649	No	8.13E+02	8.13E+02	1.63E+02	No	1.97E+03	1.97E+03	3.93E+02	No							
11	Selenium			0	0	20.000	20.000	4	No	0	0	5.000	5.000	1	No	1.63E+02	1.63E+02	3.26E+01	No	2.43E+03	2.43E+03	4.86E+02	No							
12	Silver			0.43	0	3.217	3.217	0.64335145	No	0.43	0	-	-	-	-	-	-	-	-	-	-	-	-							
13	Thallium			0	0	-	-	-	No	0	0	-	-	-	-	1.74E-01	1.74E-01	3.47E-02	No	2.74E-01	2.74E-01	5.47E-02	No							
14	Zinc			0	0	355.092	355.092	71.0184571	No	0	0	357.997	357.997	71.599385	No	1.87E+04	1.87E+04	3.73E+03	No	4.51E+04	4.51E+04	9.03E+03	No							
15	Cyanide			0	0	22.000	22.000	4.4	No	0	0	5.200	5.200	1.04	No	1.38E+02	1.38E+02	2.76E+01	No	9.33E+03	9.33E+03	1.87E+03	No							
16	Total Phenolic Compounds			0	0	-	-	-	No	0	0	-	-	-	-	-	-	-	-	-	-	-	-							
17	Hardness (As CaCO3)			79.7	0	-	-	-	No	55.06	0	-	-	-	-	-	-	-	-	-	-	-	-							

¹Outfalls 001-1, 002-1, 013-1, 014-1, 017-1, 018-1, & 023-1 discharge to a U.T. to Mulberry Fork of Black Warrior River. The 7Q10 for the receiving stream is 0.00 cfs.

This is the receiving stream flow value used in the calculations. The mean annual flow for the receiving stream was estimated to be 0.38 cfs.

²Outfall 002-1 is reported to have the highest discharge flow rate of 0.072 MGD. This is the discharge flow rate used in the calculations.

³A hardness of 100 mg/L was used in the calculations based on expected stream hardness in this portion of the state.

⁴Discharge data for all parameters are the results of samples obtained from Outfall 001-1 at Burton Mine (AL0068888) on March 15, 2017.

⁵Stream data includes analysis of sample taken in Mulberry Fork on March 15, 2017 and Hydrologic Monitoring Reports submitted to ASMC for the period of 1st Quarter 2015 to 1st Quarter 2017.

Facility Name: Centennial Natural Resources, LLC - No. 5 Mine

NPDES No.: AL0079936 Outfalls 003-1 through 012-1, 015-1, 016-1, & 019-1 through 022-1¹²³

Freshwater PWS classification.														Freshwater Acute (µg/l) Q _s = 1Q10					Freshwater Chronic (µg/l) Q _s = 7Q10					Human Health Consumption Fish & Water (µg/l) Carcinogen Q _s = Annual Average Non-Carcinogen Q _s = 7Q10				Human Health Consumption Fish only (µg/l) Carcinogen Q _s = Annual Average Non-Carcinogen Q _s = 7Q10			
ID	Pollutant	RP?	Carcinogen yes	Background instream (Cs) Daily Max ⁵	Max Daily Discharge as reported by Applicant ⁴ (C _{dmax})	Water Quality Criteria (C _i)	Draft Permit Limit (C _{dmax})	20% of Draft Permit Limit	RP?	Background instream (Cs) Monthly Ave ⁵	Avg Daily Discharge as reported by Applicant ⁴ (C _{davg})	Water Quality Criteria (C _i)	Draft Permit Limit (C _{davg})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C _i)	Draft Permit Limit (C _d)	20% of Draft Permit Limit	RP?	Water Quality Criteria (C _i)	Draft Permit Limit (C _d)	20% of Draft Permit Limit	RP?								
1	Antimony			0	0	-	-	-		0	0	-	-	-		5.52E+00	7.38E+03	1.48E+03	No	3.73E+02	4.99E+05	9.98E+04	No								
2	Arsenic		YES	0.49	0	592.334	267985.457	53597.0914	No	0.17	0	261.324	349217.374	69843.475	No	2.10E-01	2.72E+03	5.43E+02	No	5.28E-01	2.44E+04	4.87E+03	No								
3	Beryllium			0	0	-	-	-		0	0	-	-	-		-	-	-		-	-	-	-								
4	Cadmium			0.08	0	8.533	3827.452	765.4904	No	0.08	0	1.042	1286.952	257.39035	No	-	-	-		-	-	-	-								
5	Chromium/ Chromium III			0	0	2713.159	1228508.399	245701.68	No	0	0	352.926	471935.772	94387.154	No	-	-	-		-	-	-	-								
6	Chromium/ Chromium VI			0	0	16.000	7244.740	1448.948	No	0	0	11.000	14709.285	2941.857	No	-	-	-		-	-	-	-								
7	Copper			2.01	0	34.637	14775.343	2955.06866	No	1.24	0	23.082	29208.308	5841.6617	No	3.35E+03	4.48E+06	8.96E+05	No	3.35E+03	4.48E+06	8.96E+05	No								
8	Lead			0.85	0	138.290	62233.119	12446.6239	No	0.53	0	5.389	6497.967	1299.5934	No	-	-	-		-	-	-	-								
9	Mercury			0	0	2.400	1086.711	217.342199	No	0	0	0.012	16.046	3.2092986	No	1.39E-01	1.86E+02	3.71E+01	No	1.40E-01	1.88E+02	3.76E+01	No								
10	Nickel			0	0	927.200	419832.485	83966.4971	No	0	0	102.983	137709.993	27541.999	No	8.13E+02	1.09E+06	2.17E+05	No	1.97E+03	2.63E+06	5.26E+05	No								
11	Selenium			0	0	20.000	9055.925	1811.18499	No	0	0	5.000	6686.039	1337.2077	No	1.63E+02	2.18E+05	4.37E+04	No	2.43E+03	3.25E+06	6.50E+05	No								
12	Silver			0.43	0	3.217	1262.263	252.452647	No	0.43	0	-	-	-		-	-	-		-	-	-	-								
13	Thallium			0	0	-	-	-		0	0	-	-	-		1.74E-01	2.32E+02	4.65E+01	No	2.74E-01	3.66E+02	7.32E+01	No								
14	Zinc			0	0	355.092	160784.455	32156.8909	No	0	0	357.997	478716.257	95743.251	No	1.87E+04	2.50E+07	4.99E+06	No	4.51E+04	6.04E+07	1.21E+07	No								
15	Cyanide			0	0	22.000	9961.517	1992.30349	No	0	0	5.200	6953.480	1390.696	No	1.38E+02	1.84E+05	3.69E+04	No	9.33E+03	1.25E+07	2.50E+06	No								
16	Total Phenolic Compounds			0	0	-	-	-		0	0	-	-	-		-	-	-		-	-	-	-								
17	Hardness (As CaCO3)			79.7	0	-	-	-		55.06	0	-	-	-		-	-	-		-	-	-	-								

¹Outfalls 003-1 through 012-1, 015-1, 016-1, & 019-1 through 022-1 discharge to Mulberry Fork of Black Warrior River. The 7Q10 for the receiving stream is 64.09 cfs.

This is the receiving stream flow value used in the calculations. The mean annual flow for the receiving stream was estimated to be 3265.64 cfs.

²Outfall 019-1 is reported to have the highest discharge flow rate of 0.031 MGD. This is the discharge flow rate used in the calculations.

³A hardness of 100 mg/L was used in the calculations based on expected stream hardness in this portion of the state.

⁴Discharge data for all parameters are the results of samples obtained from Outfall 001-1 at Burton Mine (AL0068888) on March 15, 2017.

⁵Stream data includes analysis of sample taken in Mulberry Fork on March 15, 2017 and Hydrologic Monitoring Reports submitted to ASMC for the period of 1st Quarter 2015 to 1st Quarter 2017.



April 10, 2017

Field Operations – MNPS
Alabama Department of Environmental Management
ATTN: Ms. Ketera Wright
1400 Coliseum Boulevard
Montgomery, AL 36110-2059

RE: Centennial Natural Resources, LLC
No. 5 Mine, AL0079936
NPDES Permit Reissuance Application

Dear Ketera:

Please find enclosed a complete NPDES permit reissuance application along with a \$6,835.00 check (application fee) for the above referenced facility.

If you should have any questions please feel free to contact our office.

Sincerely,

McGehee Engineering Corp.

A handwritten signature in black ink that reads "Jonathan Whitlock". The signature is written in a cursive style.

Jonathan Whitlock

abn

4/12 13:00

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

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# 17-41595 K. Wright \$6835.00

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

- | | |
|--|--|
| <input type="checkbox"/> Initial Permit Application for New Facility | <input type="checkbox"/> Initial Permit Application for Existing Facility (e.g. facility previously permitted less than 5 acres) |
| <input type="checkbox"/> Modification of Existing Permit | <input checked="" type="checkbox"/> Reissuance of Existing Permit |
| <input type="checkbox"/> Reissuance & Transfer of Existing Permit | <input type="checkbox"/> Reissuance & Modification Existing Permit |
| | <input type="checkbox"/> Revocation and Reissuance of Existing Permit |
| | <input type="checkbox"/> Other _____ |

I. GENERAL INFORMATION

NPDES Permit Number (Not applicable if initial permit application): <i>AL0079936</i>	County(s) in which Facility is Located: <i>Walker</i>
---	--

Company/Permittee Name: <i>Centennial Natural Resources, LLC</i>		Facility Name (e.g., Mine Name, Pit Name, etc.): <i>No. 5 Mine</i>	
Mailing Address of Company/Permittee: <i>P. O. Box 2420</i>		Physical Address of Facility (as near as possible to entrance): <i>Plywood Plant Road</i>	
City: <i>Jasper</i>	State: <i>AL</i>	Zip: <i>35502</i>	City: <i>Cordova</i>
			State: <i>AL</i>
			Zip: <i>35550</i>
Permittee Phone Number: <i>205-295-2224</i>	Permittee Fax Number: <i>205-295-2228</i>	Latitude and Longitude of entrance: <i>Lat - 33° 44' 40", Lon - 87° 09' 03"</i>	

Responsible Official (as described on page 13 of this application): <i>Justin Burggraff</i>		Responsible Official Title: <i>President</i>	
Mailing Address of Responsible Official: <i>P. O. Box 2420</i>		Physical Address of Responsible Official: <i>113 Hollis Crump Drive</i>	
City: <i>Jasper</i>	State: <i>AL</i>	Zip: <i>35502</i>	City: <i>Jasper</i>
			State: <i>AL</i>
			Zip: <i>35501</i>
Phone Number of Responsible Official: <i>205-295-2224</i>	Fax Number of Responsible Official: <i>205-295-2228</i>	Email Address of Responsible Official: <i>justin.burggraff@nacoal.com</i>	

Facility Contact: <i>Drew Haley</i>		Facility Contact Title: <i>Environmental Technician</i>	
Physical Address of Facility Contact: <i>113 Hollis Crump Drive</i>		Phone Number of Facility Contact: <i>205-295-2224</i>	Fax Number of Facility Contact: <i>205-295-2228</i>
City: <i>Jasper</i>	State: <i>AL</i>	Zip: <i>35501</i>	Email Address of Facility Contact: <i>drew.haley@nacoal.com</i>

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)
<u>Justin Burggraff</u>	<u>President & Manager</u>	<u>5340 Legacy Drive, Building 1, Suite 300, Plano, Texas 75024</u>
<u>Miles B. Haberer</u>	<u>Assistant Secretary</u>	<u>5340 Legacy Drive, Building 1, Suite 300, Plano, Texas 75024</u>
<u>J. Patrick Sullivan, Jr.</u>	<u>Vice President & Manager</u>	<u>5340 Legacy Drive, Building 1, Suite 300, Plano, Texas 75024</u>
<u>Harry B. Tipton, III</u>	<u>Vice President & Manager</u>	<u>5340 Legacy Drive, Building 1, Suite 300, Plano, Texas 75024</u>
<u>John R. Pokorny</u>	<u>Controller</u>	<u>5340 Legacy Drive, Building 1, Suite 300, Plano, Texas 75024</u>
<u>K. Donald Grischow</u>	<u>Treasurer & Asst. Secretary</u>	<u>5340 Legacy Drive, Building 1, Suite 300, Plano, Texas 75024</u>
<u>John D. Neumann</u>	<u>Secretary & Manager</u>	<u>5340 Legacy Drive, Building 1, Suite 300, Plano, Texas 75024</u>
<u>Jesse L. Adkins</u>	<u>Asst. Secretary</u>	<u>5340 Legacy Drive, Building 1, Suite 300, Plano, Texas 75024</u>
<u>Michael J. Gregory</u>	<u>Manager</u>	<u>5340 Legacy Drive, Building 1, Suite 300, Plano, Texas 75024</u>
<u>J. C. Butler Jr.</u>	<u>Manager</u>	<u>5340 Legacy Drive, Building 1, Suite 300, Plano, Texas 75024</u>

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:
	<u>C & H Mining Company, Inc.</u>	<u>Justin Burggraff</u>
<u>President</u>		
<u>C & H Mining Company, Inc.</u>	<u>Michael J. Gregory</u>	<u>Vice President</u>
<u>C & H Mining Company, Inc.</u>	<u>J. Patrick Sullivan, Jr.</u>	<u>Vice President</u>
<u>C & H Mining Company, Inc.</u>	<u>Harry B. Tipton, III</u>	<u>Vice President</u>
<u>C & H Mining Company, Inc.</u>	<u>John R. Pokorny</u>	<u>Controller</u>
<u>C & H Mining Company, Inc.</u>	<u>K. Donald Grischow</u>	<u>Treasurer</u>
<u>C & H Mining Company, Inc.</u>	<u>John D. Neumann</u>	<u>Secretary</u>
<u>C & H Mining Company, Inc.</u>	<u>Jesse L. Adkins</u>	<u>Asst. Secretary</u>
<u>C & H Mining Company, Inc.</u>	<u>Miles B. Haberer</u>	<u>Asst. Secretary</u>
<u>C & H Mining Company, Inc.</u>	<u>J. C. Butler Jr.</u>	<u>Director</u>
<u>Reed Minerals, Inc.</u>	<u>Justin Burggraff</u>	<u>President</u>
<u>Reed Minerals, Inc.</u>	<u>Michael J. Gregory</u>	<u>Vice President</u>
<u>Reed Minerals, Inc.</u>	<u>J. Patrick Sullivan, Jr.</u>	<u>Vice President</u>
<u>Reed Minerals, Inc.</u>	<u>Harry B. Tipton, III</u>	<u>Vice President</u>
<u>Reed Minerals, Inc.</u>	<u>John R. Pokorny</u>	<u>Controller</u>
<u>Reed Minerals, Inc.</u>	<u>K. Donald Grischow</u>	<u>Treasurer</u>
<u>Reed Minerals, Inc.</u>	<u>John D. Neumann</u>	<u>Secretary</u>
<u>Reed Minerals, Inc.</u>	<u>Jesse L. Adkins</u>	<u>Asst. Secretary</u>
<u>Reed Minerals, Inc.</u>	<u>Miles B. Haberer</u>	<u>Asst. Secretary</u>
<u>Reed Minerals, Inc.</u>	<u>J. C. Butler Jr.</u>	<u>Director</u>

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: North American Coal Corp., Reed Minerals, Inc., C & H Mining Co., Inc.

D. Land Owner(s): See Attached Map

E. Mining Sub-contractor(s)/Operator(s), if known: 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"/> | Yes No |
| (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"/> | <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:

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:

ASMC P-3957

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:

P-3873, P-3936, P-3965, P-3765, P-3899, P-3983, P-3845, P-3805, P-3833, P-3897, P-3827, P-3808, P3806, P-3886, P-3871, P-3900, P-3893, P-3853, P-3854, AL0072605, AL0066842, AL0072613, AL0077402, AL0074241, AL0071030, AL0079227, AL0075604, AL0079936, AL0078271, AL0078751, AL0077127, AL0079278, AL0080284, AL0075850, AL0078905, AL0078280, AL0077348, AL0081558, AL0070211

VI. PROPOSED SCHEDULE

Anticipated Activity Commencement Date: 07/01/2017

Anticipated Activity Completion Date: 06/30/2022

VII. ACTIVITY DESCRIPTION & INFORMATION

- A. Proposed Total Area of the Permitted Site: 506 acres Proposed Total Disturbed Area of the Permitted Site: 506 acres
- B. Township(s), Range(s), Section(s): T15S, R6W, Sections 9, 10, 11, 14, 15, 16 & 22
- C. Detailed Directions to Site: From Birmingham, travel west on US 78 to Sumiton and intersection of Horse Creek Blvd. Turn left onto HCB and go 8 miles to intersection of Amory ave. and go .25 miles to Cordova/Parrish Rd.. Turn left onto CPR and go .5 miles to Cordova/Gorgas rd.. turn left onto CGR and go 1 mile to Doovertown Rd. and turn left onto it. Proceed to Plywood Plant Rd. to the facility site.
- D. Is/ will this facility:
- | | | |
|---|-------------------------------------|-------------------------------------|
| | Yes | No |
| (1) an existing facility which currently results in discharges to State waters? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (2) a proposed facility which will result in a discharge to State waters? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (3) be located within any 100-year flood plain? | <input checked="" type="checkbox"/> | <input 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 checked="" type="checkbox"/> | <input 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
100% 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: _____ 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 checked="" type="checkbox"/> Surface mining | <input type="checkbox"/> Underground mining | <input type="checkbox"/> Quarrying | <input checked="" 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 checked="" type="checkbox"/> Mineral transportation | <input checked="" type="checkbox"/> <u>X</u> rail <u>X</u> barge <u>X</u> 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 checked="" type="checkbox"/> Pre-construction ponded water removal | <input checked="" type="checkbox"/> Excavation | | |
| <input checked="" 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 checked="" 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: 1221 Description: Bituminous Coal Mining
- Secondary SIC Code(s): _____ Description: _____
- C. Narrative Description of the Activity: Surface coal mining utilizing 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:

<i>Volume</i>	<i>Contents</i>	<i>Volume</i>	<i>Contents</i>
<u>1-10,000</u> gallons	<u>Off-road Diesel Fuel</u>	_____ 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: P-3957

XII. ASMC REGULATED ENTITIES

A. Is this coal mining operation regulated by ASMC? Yes No

B. If "Yes", provide copies as part of this application of any pre-mining hydrologic sampling reports and Hydrologic Monitoring Reports which have been submitted to ASMC within the 36 months prior to submittal of this application.

XIII. TOPOGRAPHIC MAP SUBMITTAL

Attach to this application a 7.5 minute series U.S.G.S. topographic map(s) or equivalent map(s) no larger than, or folded to a size of 8.5 by 11 inches (several pages may be necessary), of the area extending to at least one mile beyond property boundaries. The topographic or equivalent map(s) must include a caption indicating the name of the topographic map, name of the applicant, facility name, county, and township, range, & section(s) where the facility is located. Unless approved in advance by the Department, the topographic or equivalent map(s), at a minimum, must show:

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

XIV. DETAILED FACILITY MAP SUBMITTAL

Attach to this application a 1:500 scale or better, detailed auto-CAD map(s) or equivalent map(s) no larger than, or folded to a size of 8.5 by 11 inches (several pages may be necessary), of the facility. The facility map(s) must include a caption indicating the name of the facility, name of the applicant, facility name, county, and township, range, & section(s) where the facility is located. Unless approved in advance by the Department, the facility or equivalent map(s), at a minimum, must show:

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

XV. RECEIVING WATERS

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

Action	Outfall E/P	Receiving Water	Latitude	Longitude	Distance to Rec. Water	Disturbed Acres	Drainage Acres	ADEM WUC	303(d) Segment (Y/N)	TMDL Segment* (Y/N)
Issue	001P	UT to Mulberry Fork of Black Warrior River	33° 44' 43"	87° 09' 04"	Directly	118	118	F & W	N	N
Issue	002P	UT to Mulberry Fork of Black Warrior River	33° 44' 45"	87° 09' 03"	Directly	124	124	F & W	N	N
Issue	003E	Mulberry Fork of Black Warrior River	33° 44' 45"	87° 08' 59"	100'	4	4	F & W, PWS	N	N
Issue	004P	Mulberry Fork of Black Warrior River	33° 44' 44"	87° 08' 53"	100'	20	20	F & W, PWS	N	N
Issue	005P	Mulberry Fork of Black Warrior River	33° 44' 42"	87° 08' 47"	100'	17	17	F & W, PWS	N	N
Issue	006P	Mulberry Fork of Black Warrior River	33° 44' 37"	87° 08' 40"	100'	5	5	F & W, PWS	N	N
Issue	007P	Mulberry Fork of Black Warrior River	33° 44' 33"	87° 08' 38"	100'	16	16	F & W, PWS	N	N
Issue	008P	Mulberry Fork of Black Warrior River	33° 44' 29"	87° 08' 37"	100'	15	15	F & W, PWS	N	N
Issue	009P	Mulberry Fork of Black Warrior River	33° 44' 24"	87° 08' 38"	100'	12	12	F & W, PWS	N	N
Issue	010P	Mulberry Fork of Black Warrior River	33° 44' 20"	87° 08' 38"	100'	6	6	F & W, PWS	N	N
Issue	011P	Mulberry Fork of Black Warrior River	33° 44' 17"	87° 08' 40"	100'	6	6	F & W, PWS	N	N
Issue	012P	Mulberry Fork of Black Warrior River	33° 44' 13"	87° 08' 40"	100'	5	5	F & W, PWS	N	N
Issue	013P	UT to Mulberry Fork of Black Warrior River	33° 44' 10"	87° 08' 43"	100'	3	3	F & W	N	N
Issue	014P	UT to Mulberry Fork of Black Warrior River	33° 44' 08"	87° 08' 47"	100'	13	13	F & W	N	N
Issue	015P	Mulberry Fork of Black Warrior River	33° 44' 06"	87° 08' 42"	100'	13	13	F & W, PWS	N	N
Issue	016P	Mulberry Fork of Black Warrior River	33° 43' 54"	87° 08' 44"	100'	12	12	F & W, PWS	N	N
Issue	017P	UT to Mulberry Fork of Black Warrior River	33° 43' 49"	87° 08' 51"	Directly	69	69	F & W	N	N
Issue	018P	UT to Mulberry Fork of Black Warrior River	33° 43' 51"	87° 08' 52"	Directly	59	59	F & W	N	N
Issue	019P	Mulberry Fork of Black Warrior River	33° 44' 54"	87° 09' 34"	100'	54	54	F & W, PWS	N	N
Issue	020P	Mulberry Fork of Black Warrior River	33° 44' 52"	87° 09' 25"	100'	39	39	F & W, PWS	N	N
Issue	021P	Mulberry Fork of Black Warrior River	33° 44' 49"	87° 09' 21"	100'	10	10	F & W, PWS	N	N
Issue	022P	Mulberry Fork of Black Warrior River	33° 44' 49"	87° 09' 15"	100'	5	5	F & W, PWS	N	N
Issue	023P	UT to Mulberry Fork of Black Warrior River	33° 44' 11"	87° 08' 49"	Directly	56	56	F & W	N	N

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

XVI. DISCHARGE CHARACTERIZATION

A. Modified EPA Form 2C Submittal

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

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

Outfall E/P	Information Source - # of Samples	Flow cfs	Flow gpd	Frequency hours/day	Frequency days/mth	Sum/Winter Temp, °C	pH s.u.	BOD ₅ lbs/day	TSS lbs/day	Tot Fe lbs/day	Tot Mn lbs/day	Tot Al lbs/day
001P	B.P.E.	0.106	69k	Precipitation	Precipitation	26/7	7.0	0.23	11.5	0.172	0.057	n/a
002P	B.P.E.	0.112	72k	Precipitation	Precipitation	26/7	7.0	0.24	12.1	0.181	0.060	n/a
003E	B.P.E.	0.004	2k	Precipitation	Precipitation	26/7	7.0	0.01	0.4	0.006	0.002	n/a
004P	B.P.E.	0.018	12k	Precipitation	Precipitation	26/7	7.0	0.04	1.9	0.029	0.010	n/a
005P	B.P.E.	0.015	10k	Precipitation	Precipitation	26/7	7.0	0.03	1.7	0.025	0.008	n/a
006P	B.P.E.	0.005	3k	Precipitation	Precipitation	26/7	7.0	0.01	0.5	0.007	0.002	n/a
007P	B.P.E.	0.014	9k	Precipitation	Precipitation	26/7	7.0	0.03	1.6	0.023	0.008	n/a
008P	B.P.E.	0.014	9k	Precipitation	Precipitation	26/7	7.0	0.03	1.5	0.022	0.007	n/a
009P	B.P.E.	0.011	7k	Precipitation	Precipitation	26/7	7.0	0.02	1.2	0.018	0.006	n/a
010P	B.P.E.	0.005	3k	Precipitation	Precipitation	26/7	7.0	0.01	0.6	0.009	0.003	n/a
011P	B.P.E.	0.005	3k	Precipitation	Precipitation	26/7	7.0	0.01	0.6	0.009	0.003	n/a
012P	B.P.E.	0.005	3k	Precipitation	Precipitation	26/7	7.0	0.01	0.5	0.007	0.002	n/a
013P	B.P.E.	0.003	2k	Precipitation	Precipitation	26/7	7.0	0.01	0.3	0.004	0.001	n/a
014P	B.P.E.	0.012	8k	Precipitation	Precipitation	26/7	7.0	0.03	1.3	0.019	0.006	n/a
015P	B.P.E.	0.012	8k	Precipitation	Precipitation	26/7	7.0	0.03	1.3	0.019	0.006	n/a
016P	B.P.E.	0.011	7k	Precipitation	Precipitation	26/7	7.0	0.02	1.2	0.018	0.006	n/a
017P	B.P.E.	0.062	40k	Precipitation	Precipitation	26/7	7.0	0.13	6.7	0.101	0.034	n/a
018P	B.P.E.	0.053	34k	Precipitation	Precipitation	26/7	7.0	0.11	5.7	0.086	0.029	n/a
019P	B.P.E.	0.049	31k	Precipitation	Precipitation	26/7	7.0	0.10	5.3	0.079	0.026	n/a
020P	B.P.E.	0.035	23k	Precipitation	Precipitation	26/7	7.0	0.08	3.8	0.057	0.019	n/a
021P	B.P.E.	0.009	6k	Precipitation	Precipitation	26/7	7.0	0.02	1.0	0.015	0.005	n/a
022P	B.P.E.	0.005	3k	Precipitation	Precipitation	26/7	7.0	0.01	0.5	0.007	0.002	n/a
023P	B.P.E.	0.050	33k	Precipitation	Precipitation	26/7	7.0	0.11	5.4	0.082	0.027	n/a

C. The applicant is required to supply the following information separately for every P or E outfall. If necessary, attach extra sheets. Identify and list expected average daily discharge in pounds per day of any other pollutant(s) listed in EPA Form 2C, Item V – Intake And Effluent Characteristics, Parts A, B, & C that are not referenced in Part XV.B., that you know is present or have reason to believe could be present in the discharge(s) at levels of concern:

Outfall E/P	Reason Believed Present	Information Source - # of Samples									
			lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day

COAL MINING AND/OR PREPARATION PLANT APPLICATION METALS, CYANIDE, AND TOTAL PHENOLS OUTFALL DATA

NPDES# AL0079936	APPLICANT Centennial Natural Resources, LLC, P. O. Box 2420 Jasper, AL 35502 Phone: (205) 295-2224	Facility No. 5 Mine
OUTFALL # AL0068888, 001	DATE SAMPLED 3/15/2017	SUBSTANTIALLY IDENTICAL OUTFALLS All Outfalls

Please supply the following information separately for every P outfall evaluated or E outfall tested. If necessary, attach extra sheets. If you are a coal facility mark "X" in appropriate column for all ALL listed metals, cyanides, and total phenols. If the outfall is existing, you must provide the results of at least one analysis for that pollutant. If the outfall is proposed you must either submit at least one representative analysis for a substantially identical existing outfall at the facility, or if not available, at least one representative analysis for a substantially identical outfall at another similar facility.

POLLUTANT AND CAS NO. (if available) 1/	MARK 'X'			EFFLUENT											
	TESTING REQUIRED EXISTING OUTFALL	BELIEVED PRESENT PROPOSED OUTFALL	BELIEVED ABSENT PROPOSED OUTFALL	MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE (if available)		LONG TERM AVRG. VALUE (if available)		# Of Analyses	Frequency of Discharge Days/Mth Hours/Day	40 CFR Part 136 EPA Approved Method Analysis Used	Detection Limit (µ/L)	Receiving Water 7-Q10 Flow (CFS)	2/ Optional Instream hardness (mg/L CaCO3)
				CONCENTRATION (µ/L)	MASS (lbs)	CONCENTRATION (µ/L)	MASS (lbs)	CONCENTRATION (µ/L)	MASS (lbs)						
1M. Antimony, Dissolved (7440-38-0)	X			<1.92	N/A					1	Precipitation Based	EPA 200.8	0.6 µg/L	0.0051	
2M. Arsenic, Dissolved (7440-38-2)	X			<0.30	N/A					1	Precipitation Based	EPA 200.8	0.08 µg/L	0.0051	
3M. Beryllium, Dissolved (7440-41-7)	X			<2.20	N/A					1	Precipitation Based	EPA 200.8	0.69 µg/L	0.0051	
4M. Cadmium, Dissolved (7440-43-9)	X			<0.08	N/A					1	Precipitation Based	EPA 200.8	0.03 µg/L	0.0051	
5M Chromium, Dissolved (7440-47-3)	X			<1.64	N/A					1	Precipitation Based	EPA 200.8	0.52 µg/L	0.0051	
6M Copper, Dissolved (7440-50-8)	X			<0.90	N/A					1	Precipitation Based	EPA 200.8	0.28 µg/L	0.0051	
7M Lead, Dissolved (7439-92-1)	X			<0.31	N/A					1	Precipitation Based	EPA 200.8	0.1 µg/L	0.0051	
8M Mercury, Total (7439-97-6)	X			<0.010	N/A					1	Precipitation Based	EPA 245.2	0.003 µg/L	0.0051	
9M Nickel, Dissolved (7440-02-0)	X			<6.86	N/A					1	Precipitation Based	EPA 200.8	2.16 µg/L	0.0051	
10M Selenium, Total (7782-49-2)	X			<0.95	N/A					1	Precipitation Based	EPA 200.8	0.3 µg/L	0.0051	
11M Silver, Dissolved (7440-22-4)	X			<0.15	N/A					1	Precipitation Based	EPA 200.8	0.05 µg/L	0.0051	
12M Thallium, Dissolved (7440-28-0)	X			<0.08	N/A					1	Precipitation Based	EPA 200.8	0.03 µg/L	0.0051	
13M Zinc, Dissolved (7440-66-6)	X			<16.45	N/A					1	Precipitation Based	EPA 200.8	5.17 µg/L	0.0051	
14M Cyanide, Total (57-12-5)	X			<3	N/A					1	Precipitation Based	SM4500 CN ⁻ E	1 µg/L	0.0051	
15M Phenols, Total	X			<6.0	N/A					1	Precipitation Based	EPA 420.1	2 µg/L	0.0051	

By submission of this form, I/we (PE and applicant) certify that I/we have read the instructions for completion of EPA Forms 2C & 2D. Attach Additional Information As Needed

1/ For the purpose of demonstration of compliance with these parameters, "Total" and "Total Recoverable" measurements shall be considered equivalent.

2/ Instream Hardness (CaCO₃) will be assumed to be 50 mg/L if instream Hardness data is not submitted.

Sampling results must be representative of the discharge and test methods used in accordance with 40 CFR Part 136 and 40 CFR 122.21(g)(7)(i).

Rev 2/1/07

BML = Below Minimum Level

McGehee Engineering Corp collecting samples and performing analysis.

Name of Permittee and/or Company(s) Collecting Samples And Performing Analyses.



Date Printed: 4/10/2017

Client: Centennial Natural Resources

P.O. Box 2420

Jasper, AL 35502

Location: No. 5 Mine -- BB-001

Sample Date: 3/15/2017

Sampled By: Client

REPORT OF FINDINGS

Lab ID: 17031602-01

Analyte	Result	Minimum Level / Units	Method	Analysis Date	Analyst
Antimony, Dissolved	BML	1.92 µg/L	EPA200.8	3/21/2017 10:50:28 AM	JohnMorris
Arsenic, Dissolved	BML	0.27 µg/L	EPA200.8	3/21/2017 10:50:28 AM	JohnMorris
Arsenic, Total	BML	0.27 µg/L	EPA200.8	3/21/2017 10:46:28 AM	JohnMorris
Beryllium, Dissolved	BML	2.20 µg/L	EPA200.8	3/21/2017 10:50:28 AM	JohnMorris
Cadmium, Dissolved	BML	0.08 µg/L	EPA200.8	3/21/2017 10:50:28 AM	JohnMorris
Chromium, Dissolved	BML	1.64 µg/L	EPA200.8	3/21/2017 10:50:28 AM	JohnMorris
Copper, Dissolved	BML	0.90 µg/L	EPA200.8	3/21/2017 10:50:28 AM	JohnMorris
Cyanide, Total	BML	3.0 µg/L	SM4500-CN-E	4/6/2017	KyleThomas
Flow/MGD	0.1031	MGD	EPA5.1	3/15/2017	Centennial Natural Resources
Lead, Dissolved	BML	0.31 µg/L	EPA200.8	3/21/2017 10:50:28 AM	JohnMorris
Mercury, Total	BML	0.010 µg/L	EPA245.2	3/31/2017 1:17:00 PM	KyleThomas
Nickel, Dissolved	BML	6.86 µg/L	EPA200.8	3/21/2017 10:50:28 AM	JohnMorris
Phenols, Total	BML	6.0 µg/L	EPA420.1	3/22/2017	KyleThomas
Selenium, Total	BML	0.95 µg/L	EPA200.8	3/21/2017 10:46:28 AM	JohnMorris
Silver, Dissolved	BML	0.15 µg/L	EPA200.8	3/21/2017 10:50:28 AM	JohnMorris
Thallium, Dissolved	BML	0.08 µg/L	EPA200.8	3/21/2017 10:50:28 AM	JohnMorris
Zinc, Dissolved	BML	16.45 µg/L	EPA200.8	3/21/2017 10:50:28 AM	JohnMorris

Analysis Approved: 4/10/2017

John Morris
Laboratory Manager



Date Printed: 4/10/2017

Client: Centennial Natural Resources

P.O. Box 2420

Jasper, AL 35502

Location: No. 5 Mine -- Mulberry Fork

Sample Date: 3/15/2017

Sampled By: Client

REPORT OF FINDINGS

Lab ID: 17031602-03

Analyte	Result	Minimum Level / Units	Method	Analysis Date	Analyst
Antimony, Dissolved	BML	1.92 µg/L	EPA200.8	3/21/2017 11:15:53 AM	JohnMorris
Arsenic, Dissolved	BML	0.27 µg/L	EPA200.8	3/21/2017 11:15:53 AM	JohnMorris
Arsenic, Total	BML	0.27 µg/L	EPA200.8	3/21/2017 10:58:30 AM	JohnMorris
Beryllium, Dissolved	BML	2.20 µg/L	EPA200.8	3/21/2017 11:15:53 AM	JohnMorris
Cadmium, Dissolved	BML	0.08 µg/L	EPA200.8	3/21/2017 11:15:53 AM	JohnMorris
Chromium, Dissolved	BML	1.64 µg/L	EPA200.8	3/21/2017 11:15:53 AM	JohnMorris
Copper, Dissolved	BML	0.90 µg/L	EPA200.8	3/21/2017 11:15:53 AM	JohnMorris
Cyanide, Total	BML	3.0 µg/L	SM4500-CN-E	4/6/2017	KyleThomas
Flow/MGD	3277	MGD	EPA5.1	3/15/2017	Centennial Natural Resources
Lead, Dissolved	BML	0.31 µg/L	EPA200.8	3/21/2017 11:15:53 AM	JohnMorris
Mercury, Total	BML	0.010 µg/L	EPA245.2	3/31/2017 1:20:00 PM	KyleThomas
Nickel, Dissolved	BML	6.86 µg/L	EPA200.8	3/21/2017 11:15:53 AM	JohnMorris
Phenols, Total	BML	6.0 µg/L	EPA420.1	3/22/2017	KyleThomas
Selenium, Total	BML	0.95 µg/L	EPA200.8	3/21/2017 10:58:30 AM	JohnMorris
Silver, Dissolved	BML	0.15 µg/L	EPA200.8	3/21/2017 11:15:53 AM	JohnMorris
Thallium, Dissolved	BML	0.08 µg/L	EPA200.8	3/21/2017 11:15:53 AM	JohnMorris
Zinc, Dissolved	BML	16.45 µg/L	EPA200.8	3/21/2017 11:15:53 AM	JohnMorris

Analysis Approved: 4/10/2017

John Morris
Laboratory Manager

XVII. DISCHARGE STRUCTURE DESCRIPTION & POLLUTANT SOURCE

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

Outfall	Discharge structure Description	Description of Origin Of pollutants	Surface Discharge	Groundwater Discharge	Wet Prep -Other Production Plant	Pumped or Controlled Discharge	Low Volume STP	Other
001P	Pipe and/or Channel	2, 8 & 9	X			X		
002P	Pipe and/or Channel	2, 8 & 9	X			X		
003E	Pipe and/or Channel	2, 8 & 9	X			X		
004P	Pipe and/or Channel	2, 8 & 9	X			X		
005P	Pipe and/or Channel	2, 8 & 9	X			X		
006P	Pipe and/or Channel	2, 8 & 9	X			X		
007P	Pipe and/or Channel	2, 8 & 9	X			X		
008P	Pipe and/or Channel	2, 8 & 9	X			X		
009P	Pipe and/or Channel	2, 8 & 9	X			X		
010P	Pipe and/or Channel	2, 8 & 9	X			X		
011P	Pipe and/or Channel	2, 8 & 9	X			X		
012P	Pipe and/or Channel	2, 8 & 9	X			X		
013P	Pipe and/or Channel	2, 8 & 9	X			X		
014P	Pipe and/or Channel	2, 8 & 9	X			X		
015P	Pipe and/or Channel	2, 8 & 9	X			X		
016P	Pipe and/or Channel	2, 8 & 9	X			X		
017P	Pipe and/or Channel	2, 8 & 9	X			X		
018P	Pipe and/or Channel	2, 8 & 9	X			X		
019P	Pipe and/or Channel	2, 8 & 9	X			X		
020P	Pipe and/or Channel	2, 8 & 9	X			X		
021P	Pipe and/or Channel	2, 8 & 9	X			X		
022P	Pipe and/or Channel	2, 8 & 9	X			X		
023P	Pipe and/or Channel	2, 8 & 9	X			X		

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:** _____.

XVIII. 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.

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

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

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

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

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

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

XIX. POLLUTION ABATEMENT PLAN (PAP) SUMMARY

Outfall(s): All Outfalls

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

The applicant has completed the surface water discharge alternatives analysis and has supporting documentation, including annualized costs for each technically feasible alternative available for review upon request

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

All "N/A" responses are because all designs/plans were or will be approved under permit by the Alabama Surface Mining Commission prior to construction of any impoundment, embankment, diversion, stockpile or road; or Performing any grading and re-vegetation operations.

XX. POLLUTION ABATEMENT PLAN (PAP) REVIEW CHECKLIST

Y	N	N/A
XX		
XX		
XX		

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

General Information:

XX		
	X	
XX		
	X	
XX		

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

Topographic Map:

XX		
		XX
XX		
XX		
XX		

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

1"- 500' or Equivalent Facility Map:

XX		
XX		
XX		
XX		

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

Detailed Design Diagrams:

		XX
		XX
		XX

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

Narrative of Operations:

XX		
XX		
XX		

Raw Materials Defined
 Processes Defined
 Products Defined

Schematic Diagram:

		XX
		XX
		XX

Points of Waste Origin
 Collection System
 Disposal System

Post Treatment Quantity and Quality of Effluent:

XX		
XX		
XX		
XX		

Flow
 Suspended Solids
 Iron Concentration
 pH

Description of Waste Treatment Facility:

		XX
		XX
		XX
		XX

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

Other:

		XX
		XX
		XX
		XX
		XX
		XX

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
 PE Rationale(s) For Alternate Standards, Designs or Plans

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

All "N" and "N/A" responses are because they have been or will be addressed by permit with ASMC prior to construction.

XXI. 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

XXII. 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 P.O. Box 3431 Jasper, AL 35502-3431 PE Registration # 15917

Name and Title (type or print) Robert W. Usher Phone Number (205) 221-0686

Signature *Robert W. Usher* Date Signed 4/10/17

XXIII. RESPONSIBLE OFFICIAL SIGNATURE*

This application must be signed by a Responsible Official of the applicant pursuant to ADEM Admin. Code Rule 335-6-6-.09 who has overall responsibility for the operation of the facility.

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

A comprehensive PAP Plan to prevent and minimize discharges of pollution to the maximum extent practicable has been prepared at my direction by a PE for this facility utilizing effective, good engineering and pollution control practices and in accordance with the provisions of ADEM Admin. Code Division 335-6, including Chapter 335-6-9 and Appendices A & B, and information contained in this application, including any attachments. I understand that regular inspections must be performed by, or under the direct supervision of, a PE and all appropriate pollution abatement/prevention facilities and structural & nonstructural management practices or Department approved equivalent management practices identified by the PE must be fully implemented prior to and concurrent with commencement of regulated activities and regularly maintained as needed at the facility in accordance with good sediment, erosion, and other pollution control practices and ADEM requirements. I understand that the PAP plan must be fully implemented and regularly maintained so that discharges of pollutants can reasonably be expected to be effectively minimized to the maximum extent practicable and according to permit discharge limitations and other requirements to ensure protection of groundwater and surface water quality. I understand that failure to fully implement and regularly maintain required management practices for the protection of groundwater and surface water quality may subject the Permittee to appropriate enforcement action.

I certify that this form has not been altered, and if copied or reproduced, is consistent in format and identical in content to the ADEM approved form.

I further certify that the discharges described in this application have been tested or evaluated for the presence of non-stormwater discharges and any non-mining associated beneficiation/process pollutants and wastewaters have been fully identified."

Name (type or print) Justin Burggraff Official Title President

Signature *Justin Burggraff* Date Signed March 14, 2017

*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.

SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN

Prepared for:

Alabama Department of Environmental Management

CENTENNIAL NATURAL RESOURCES, LLC

NO. 5 MINE

NPDES Permit

Prepared by:

MCGEHEE ENGINEERING CORP.
P. O. Box 3431
Jasper, Alabama 35502-3431
Telephone (205) 221-0686

Location: Sections 9, 10, 11, 14, 15, 16 & 22, Township 15 South, Range 6 West, all in Walker County, Alabama.

Facility Phone Number: (205) 295-2224

Facility Contact and Address:

Drew Haley, 113 Hollis Crump Drive, Jasper, AL 35501

1. This facility has never experienced a spill from any fuel or other chemical storage tanks.
2. The containment structures will be located in an area that is not subject to periodic flooding.
3. This plan provides for the containment of the following:

<u>No. Of Tanks</u>	<u>Total Capacity</u>	<u>Material</u>
1	10,000 gal	Diesel Fuel Off Road

The area around the tanks is enclosed by a dike which exceeds the volume capacity of the largest tank in the bermed area by 10%. The tank will be contained in a separate structure that exceeds the volume capacity of this tank by 10%. This structure will not be constructed using any incompatible materials (aluminum, magnesium, tin, zinc, etc.), and will be located in a well-ventilated area.

4. The nearest surface water of the State is UT to Mulberry Fork of Black Warrior River, which is located adjacent to the facility.

5. The dikes are constructed of impervious material around the tank area. There is a 2" minimum pipe with a manual gate valve, which allows rainwater discharge when it is needed. The valve remains closed at all times and is to be locked until the diked area collects enough rainwater to require draining. After an inspection of the water to determine if any pollutants are present, the valve is opened to allow the proper drainage, and then immediately closed again and re-locked. The containment system is located such that rainwater released through normal de-watering drains to a permitted treatment structure. If pollutants (oil) are present in the rainwater, the pollutants will be removed from the water prior to draining the water. Pollutants 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 de-watered, the person conducting the de-watering, and a brief description of the water (i.e., oily sheen, clear, slightly turbid, oily smell, etc.).

6. If a spill should occur, the usable fuel oil within the diked area shall immediately be pumped into tanker trucks for transporting to another storage tank. Oil absorbent material will be kept available to contain any spills. The unusable fuel oil and the contaminated soil in the area will be excavated and disposed of in accordance with existing State and Federal regulations.

7. A written record shall be maintained by the Division Manager of any spill which occurs, and the actions taken to properly dispose of all spilled material and the cleanup procedures.

8. 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. If the spills continue, a paved unloading ramp equipped with an oil-water separator will be constructed.

9. 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.

Potential Sources of Spills:

A. Tank or Tank Valve Rupture:

Prevention: Tanks, valves, and fittings will be properly maintained and kept in good condition. A visual inspection of all tanks, valves, and fittings will be conducted 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 the equipment at all times during unloading operations. Key personnel will be present when fuel and/or other chemicals are delivered to assure that the delivery personnel follow proper procedures. 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 inspections will be conducted of all hoses and replacement hoses will be kept at the facility office. In addition, personnel will use the proper hose drainage procedure.

10. Notification

In the event of a reportable quantity spill, immediately call:

The National Response Center
1-800-424-8802

The Alabama Emergency Management Agency
1-800-843-0699

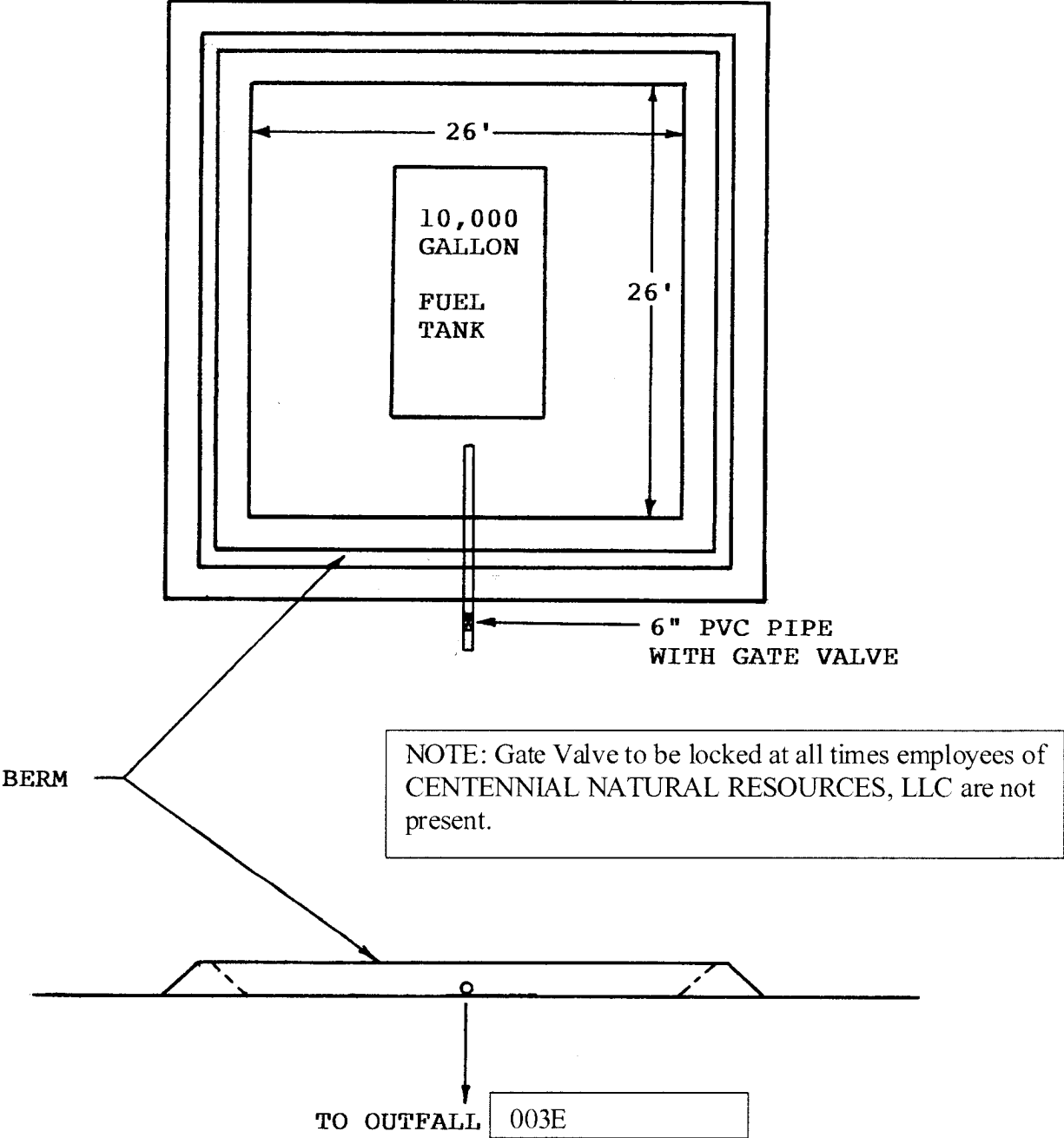
Alabama Department of Environmental Management Water Division
1400 Coliseum Boulevard Montgomery, Alabama 36110
Telephone Number: (334) 271-7700

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 downstream body of water to receive spill
 9. Request actions to take for containment and cleanup
- II. The facility will be kept gated and locked to prevent vandalism or theft whenever New Acton Coal Co., Inc. personnel are not present.

All key personnel will be fully trained in all aspects of this plan, the proper use of personal protective gear, and all reporting and record keeping procedures. All non-key personnel will be made familiar with the plan and will be instructed on personal safety.

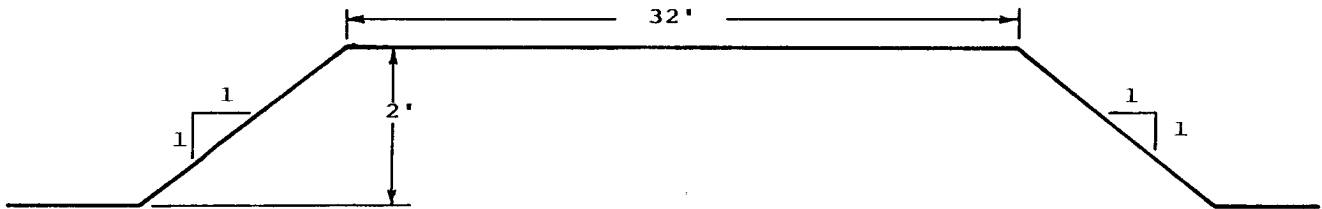
TYPICAL BERM DETAIL



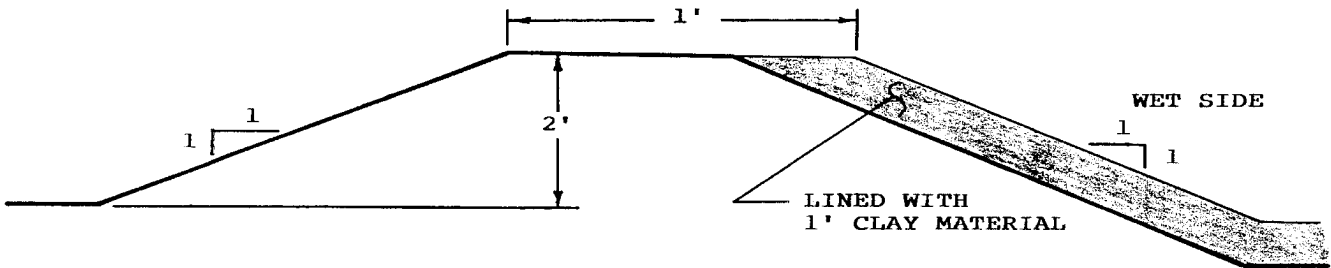
SCALE: 1" = 10'

BERM DESIGN
TYPICAL SECTIONS

FRONT VIEW



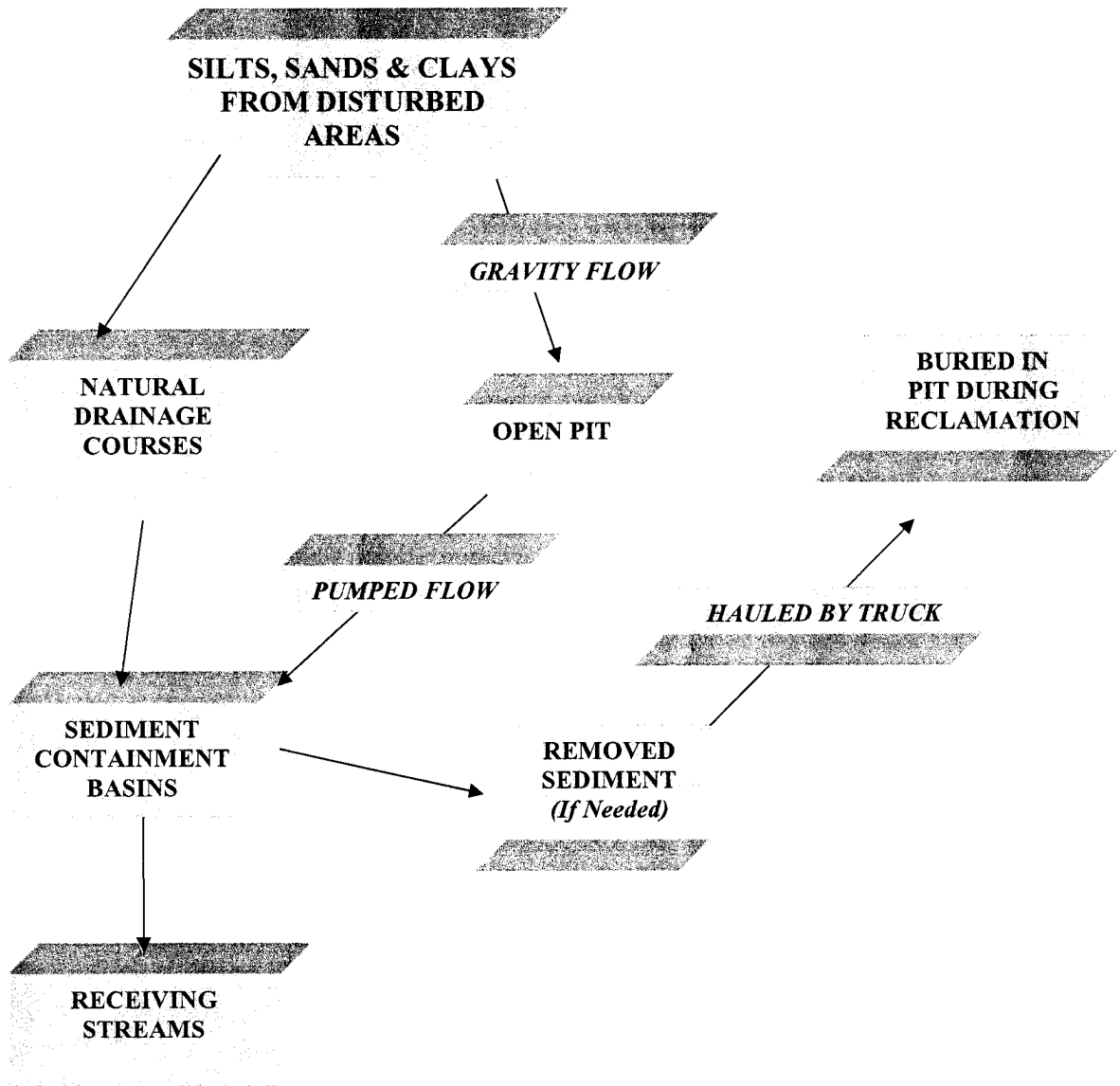
SIDE VIEW



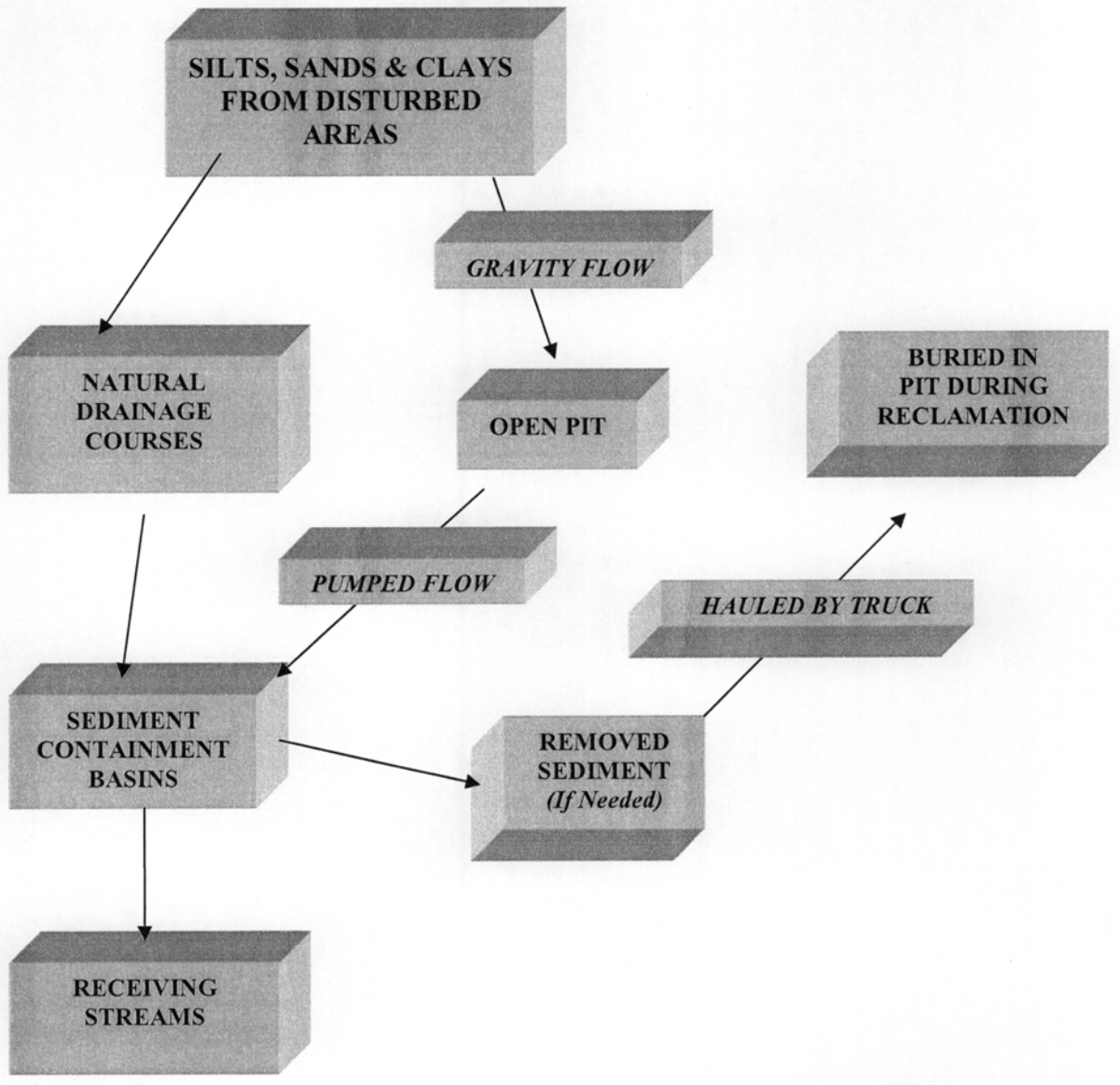
NOT TO SCALE

NOTE: Containment berm to be lined with a clay material with a permeability of 1×10^{-6} cm/sec or less.

SCHEMATIC DIAGRAM OF WASTE CYCLE



SCHEMATIC DIAGRAM OF WASTE CYCLE



Date Printed: 4/25/2017



Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502

ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.				6.0														O(Pass)	O(Pass)	
1st Quarter, 2017		Average	Report	Report			35	Report	Report	Report	Report	Report	Report	Report	3.0	2.0		Report	Report	Report		
Permit #	AL0079936	Max.				9.0	70								6.0	4.0					1(Fail)	1(Fail)
		Freq.	1/Qtr	1/Qtr		2/mth	2/mth	1/Qtr	2/mth	2/mth	1/Qtr	1/Qtr	1/Qtr		2/mth	2/mth		1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr
Collect. Date	Outfall	Flow MGD	Depth Feet		pH	TSS mg/L	Turb NTU	SO4 mg/L	Cond. µS/cm	Cl- mg/L	Acidity mg/L	Alkalinity mg/L	TDS mg/L	Fe Tot mg/L	Mn Tot mg/L	Hg Tot µg/L	SD µg/L	Temp °C	Acute Genid	Acute Pime		

Basin

1/4/2017	003	ND																				
1/19/2017	003	ND																				
2/6/2017	003	ND																				
2/17/2017	003	ND																				
3/2/2017	003	ND																				
3/14/2017	003	ND																				

Stream

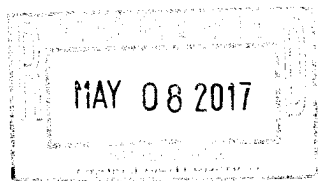
2/24/2017	SW-1 US. Mulberry Fork	937.1			6.70	1	7.6	8	91.4	5.5	30	11		0.74	0.28		< 0.010	8.20	19.5		
2/24/2017	SW-2 DS. Mulberry Fork	846.6			6.91	11	14	21	161.8	6.5	9	30		0.50	0.09		< 0.010	10.06	17.5		
2/24/2017	SW-3 DS. Mulberry Fork	846.6			6.56	38	29	< 6	156.4	4.5	8	33		0.81	0.14		< 0.010	9.10	20.2		

Well

2/24/2017	H255		25.00		6.33			< 6	123.8					1.64	0.04						
2/24/2017	H256		5.00		6.33			28	286.0					1.46	0.16						
2/24/2017	H257		9.00		6.36			20	187.3					20.01	1.06						

John Morris

MEC John Morris
 Laboratory Manager



NA = Not Analysed ND = No Discharge

Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin collection, flow data, conductance and pH by Centennial Natural Resources, LLC, balance of analysis by McGehee Engineering Corp.

Date Printed: 4/25/2017



Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502

ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.																				
1st Quarter, 2017		Average	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report
Permit #	AL0079936	Max.																				
		Freq.	1/Qtr	1/Qtr	1/mth	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr
Collect	Outfall	Al	Sb	As	ba	Cr	Ca	Cl	Cu	Pb	Mg	Ni	K	Se	Ag	Na	Tl	Zn	Hardie			
Date		mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L			
Basin																						
1/4/2017	003																					
1/19/2017	003																					
2/6/2017	003																					
2/17/2017	003																					
3/2/2017	003																					
3/14/2017	003																					
Stream																						
2/24/2017	SW-1 US. Mulberry Fork	0.19	< 1.92	< 0.27	< 2.20	< 0.08	4.88	< 1.64	< 0.90	< 0.31	4.08	< 6.86	1.53	< 0.95	< 0.15	3.01	< 0.08	20.52	29.00			
2/24/2017	SW-2 DS. Mulberry Fork	0.26	< 1.92	0.30	< 2.20	< 0.08	13.43	< 1.64	1.63	0.51	5.68	< 6.86	2.59	< 0.95	< 0.15	4.65	< 0.08	< 16.45	56.90			
2/24/2017	SW-3 DS. Mulberry Fork	0.50	< 1.92	0.45	< 2.20	< 0.08	12.78	< 1.64	2.01	0.66	5.67	< 6.86	2.55	< 0.95	< 0.15	4.57	< 0.08	< 16.45	55.30			
Well																						
2/24/2017	H255																					
2/24/2017	H256																					
2/24/2017	H257																					

NA = Not Analysed ND = No Discharge

Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin collection, flow data, conductance and pH by Centennial Natural Resources, LLC, balance of analysis by McGehee Engineering Corp.

Date Printed: 1/24/2017

Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502



ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.				6.0														0(Pass)	0(Pass)	
4th Quarter, 2016		Average	Report	Report			35	Report	Report	Report	Report	Report	Report	Report	3.0	2.0		Report	Report	Report		
Permit #	AL0079936	Max.				9.0	70								6.0	4.0					1(Fail)	1(Fail)
		Freq.	1/Qtr	1/Qtr		2/mth	2/mth	1/Qtr	2/mth	2/mth	1/Qtr	1/Qtr	1/Qtr		2/mth	2/mth		1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr
Collect Date	Outfall	Flow (MGD)	Depth (feet)		pH	TSS (mg/L)	Turb (NTU)	SO4 (mg/L)	Cond (µS/cm)	Cl (mg/L)	Acidity (mg/L)	Alkalinity (mg/L)	TDS (mg/L)	Fe Tot (mg/L)	Mn Tot (mg/L)	Hg Tot (µg/L)	D.O. (mg/L)	Temp (C)	Acute Cerid.	Acute Fime.		

Basin

10/5/2016	003	ND																				
10/25/2016	003	ND																				
11/3/2016	003	ND																				
11/16/2016	003	ND																				
12/7/2016	003	ND																				
12/20/2016	003	ND																				

Stream

10/25/2016	SW-1 US. Mulberry Fork	196.5			7.02	4	4.1	34	157.8	12.0	28	22		0.10	0.04		< 0.010	9.05	19.9		
10/25/2016	SW-2 DS. Mulberry Fork	196.5			6.98	5	3.3	56	230.0	17.0	6	30		0.13	0.04		< 0.010	9.09	22.2		
10/25/2016	SW-3 DS. Mulberry Fork	196.5			6.93	4	6.5	41	184.3	12.0	9	25		0.12	0.04		< 0.010	8.99	19.9		

Well

10/25/2016	H255		27.00		6.75			32	202.7					26.99	0.21						
10/25/2016	H256		13.00		6.49			49	301.0					64.51	0.16						
10/25/2016	H257		14.00		7.60			< 6	139.0					11.35	0.09						

John Morris

MEC John Morris
 Laboratory Manager

NA = Not Analysed ND = No Discharge

Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin collection, flow data, conductance and pH by Centennial Natural Resources, LLC, balance of analysis by McGehee Engineering Corp.

Date Printed: 1/24/2017



Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502

ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.																					
4th Quarter, 2016		Average	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report
Permit #	AL0079936	Max.																					
		Freq.	1/Qtr	1/Qtr	1/mth	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr
Collect Date	Outfall	Al	Sb	As	Be	Cd	Ca	Cr	Cu	Pb	Mg	Ni	K	Se	Ag	Na	Tb	Zn	U/dne				
		mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L				
Basin																							
10/5/2016	003																						
10/25/2016	003																						
11/3/2016	003																						
11/16/2016	003																						
12/7/2016	003																						
12/20/2016	003																						
Stream																							
10/25/2016	SW-1 US. Mulberry Fork	0.03	< 1.92	0.56	< 2.20	< 0.08	12.70	< 1.64	< 0.90	< 0.31	5.08	< 6.86	2.62	< 0.95	< 0.15	5.24	< 0.08	< 16.45	52.70				
10/25/2016	SW-2 DS. Mullberry Fork	0.07	< 1.92	0.95	< 2.20	< 0.08	19.41	< 1.64	< 0.90	< 0.31	6.62	< 6.86	2.74	< 0.95	< 0.15	6.90	< 0.08	< 16.45	75.70				
10/25/2016	SW-3 DS. Mulberry Fork	0.05	< 1.92	0.73	< 2.20	< 0.08	15.84	< 1.64	< 0.90	< 0.31	5.77	< 6.86	2.73	< 0.95	< 0.15	5.93	< 0.08	< 16.45	63.30				
Well																							
10/25/2016	H255																						
10/25/2016	H256																						
10/25/2016	H257																						

NA = Not Analysed ND = No Discharge

Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin collection, flow data, conductance and pH by Centennial Natural Resources, LLC, balance of analysis by McGehee Engineering Corp.

Date Printed: 10/21/2016

Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502



ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.				6.0															0(Pass)	0(Pass)
3rd Quarter, 2016		Average	Report	Report			35	Report	Report	Report	Report	Report	Report	Report	3.0	2.0		Report	Report	Report		
Permit #	AL0079936	Max.				9.0	70								6.0	4.0					1(Fail)	1(Fail)
		Freq.	1/Qtr	1/Qtr		2/mth	2/mth	1/Qtr	2/mth	2/mth	1/Qtr	1/Qtr	1/Qtr		2/mth	2/mth		1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr
Collect Date	Outfall	Flow MGD	Depth Feet		pH	TSS mg/L	Turb NTU	SO4 mg/L	Cond µS/cm	Cl- mg/L	Acidity mg/L	Alkalinity mg/L	TDS mg/L	Fe Tot mg/L	Mn Tot mg/L	mg/L	NO3 mg/L	Temp	Acute Cond	Acute Pline		

Basin

7/5/2016	003	ND																				
7/19/2016	003	ND																				
8/10/2016	003	ND																				
8/24/2016	003	ND																				
9/7/2016	003	ND																				
9/20/2016	003	ND																				

Stream

7/19/2016	SW-1 US. Mulberry Fork	84.66			6.45	11	13	<6	163.5	7.0	12	53		2.86	1.84		<0.010	8.30	23.9		
7/19/2016	SW-2 DS. Mulberry Fork	83.37			6.58	5	5.5	18	130.1	7.0	6	24		0.11	0.07		<0.010	8.20	29.2		
7/19/2016	SW-3 DS. Mulberry Fork	83.37			7.97	8	5.5	<6	102.8	5.0	7	19		0.18	0.07		<0.010	8.30	27.6		

Well

7/19/2016	H255		24.00		6.22			13	249.0					10.92	0.38						
7/19/2016	H256		7.00		6.24			73	322.0					5.86	0.12						
7/19/2016	H257		11.00		6.94			20	166.7					7.93	0.68						

John Morris

MEC John Morris
 Laboratory Manager

NA = Not Analysed ND = No Discharge

Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin collection, flow data, conductance and pH by Centennial Natural Resources, LLC, balance of analysis by McGehee Engineering Corp.

Date Printed: 10/21/2016

Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502



ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.	Report																	
3rd Quarter, 2016		Average	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report
Permit #	AL0079936	Max.																		
Collect Date	Outfall	Freq.	1/Qtr	1/Qtr	1/mth	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr
		Al	Sb	As	Be	Cd	Ca	Cr	Cu	Pb	Mg	Ni	K	Se	Ag	Na	Tl	Zn	Hg	DDP
		mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Basin																				
7/5/2016	003																			
7/19/2016	003																			
8/10/2016	003																			
8/24/2016	003																			
9/7/2016	003																			
9/20/2016	003																			
Stream																				
7/19/2016	SW-1 US. Mulberry Fork	0.14	< 1.92	1.62	< 2.20	0.08	11.31	< 1.64	< 0.90	< 0.31	9.37	< 6.86	2.33	< 0.95	< 0.15	3.77	< 0.08	< 16.45	66.80	
7/19/2016	SW-2 DS. Mulberry Fork	0.05	< 1.92	0.46	< 2.20	< 0.08	10.99	< 1.64	< 0.90	< 0.31	5.00	< 6.86	2.23	< 0.95	< 0.15	4.41	< 0.08	< 16.45	48.00	
7/19/2016	SW-3 DS. Mulberry Fork	0.08	< 1.92	0.36	< 2.20	< 0.08	8.65	< 1.64	< 0.90	< 0.31	4.15	< 6.86	2.17	< 0.95	< 0.15	3.63	< 0.08	< 16.45	38.70	
Well																				
7/19/2016	H255																			
7/19/2016	H256																			
7/19/2016	H257																			

NA = Not Analysed ND = No Discharge

Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin collection, flow data, conductance and pH by Centennial Natural Resources, LLC, balance of analysis by McGehee Engineering Corp.

Date Printed: 7/21/2016

Company: Centennial Natural Resources

P.O. Box 2420

Jasper, AL 35502

ASMC #: P3957 - No. 5 Mine



HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.				6.0															0(Pass)	0(Pass)
2nd Quarter, 2016		Average	Report	Report			35	Report	Report	Report	Report	Report	Report	3.0	2.0		Report	Report	Report			
Permit #	AL0079936	Max.				9.0	70							6.0	4.0						1(Fail)	1(Fail)
Collect Date	Outfall	Freq.	1/Qtr	1/Qtr		2/mth	2/mth	1/Qtr	2/mth	2/mth	1/Qtr	1/Qtr	1/Qtr	2/mth	2/mth		1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr
		Flow MGD	Depth Feet			pH	TSS mg/L	Turb NTU	SO4 mg/L	Cond. µS/cm	Cl mg/L	Acidity mg/L	Alkalinity mg/L	TDS mg/L	Fe, Tot mg/L	Mn, Tot mg/L	Hg, Tot µg/L	D.O mg/L	Temp °C	Acute Card	Acute P/me	

Basin

4/8/2016	003	ND																				
4/27/2016	003	ND																				
5/6/2016	003	ND																				
5/26/2016	003	ND																				
6/6/2016	003	ND																				
6/27/2016	003	ND																				

Stream

4/29/2016	SW-1 US. Mulberry Fork	299.2				7.51	55	13	<6	160.0	9.0	11	37		0.68	0.16		<0.010	9.04	24.1		
4/29/2016	SW-2 DS. Mullberry Fork	299.2				7.53	20	8.0	<6	180.8	12.5	5	34		0.45	0.13		<0.010	8.94	25.8		
4/29/2016	SW-3 DS. Mulberry Fork	299.2				7.48	72	36	<6	164.9	12.5	9	32		0.59	0.12		<0.010	8.65	24.2		

Well

4/29/2016	H255		23.00			6.44			<6	191.0					3.37	0.18						
4/29/2016	H256		7.00			6.28			36	364.0					12.12	0.31						
4/29/2016	H257		9.00			6.28			<6	212.1					11.55	0.94						

John Morris

MEC John Morris
McGehee Engineering Corp
 Laboratory Manager

NA = Not Analysed ND = No Discharge

Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin collection, flow data, conductance and pH by Centennial Natural Resources, LLC, balance of analysis by McGehee Engineering Corp.

Date Printed: 7/21/2016

Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502



ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.																				
2nd Quarter, 2016		Average	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report
Permit #	AL0079936	Max.																				
Collect Date	Outfall	Freq.	1/Qtr	1/Qtr	1/mth	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr
			Al	Sb	As	Be	Cd	Ca	Cr	Cu	Pb	Mg	Ni	K	Se	Ag	Na	Tl	Zn	Hardness		
			mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Basin																						
4/8/2016	003																					
4/27/2016	003																					
5/6/2016	003																					
5/26/2016	003																					
6/6/2016	003																					
6/27/2016	003																					
Stream																						
4/29/2016	SW-1 US. Mulberry Fork	0.34	< 1.92	0.58	< 2.20	< 0.08	11.97	< 1.64	1.16	0.43	6.35	< 6.86	2.05	< 0.95	< 0.15	4.10	< 0.08	< 16.45	56.00			
4/29/2016	SW-2 DS. Mullberry Fork	0.25	< 1.92	0.46	< 2.20	< 0.08	12.34	< 1.64	1.44	< 0.31	6.62	< 6.86	1.96	< 0.95	< 0.15	4.52	< 0.08	< 16.45	58.10			
4/29/2016	SW-3 DS. Mulberry Fork	0.32	< 1.92	0.50	< 2.20	< 0.08	11.50	< 1.64	1.38	0.39	6.22	< 6.86	1.95	< 0.95	< 0.15	3.73	< 0.08	< 16.45	54.30			
Well																						
4/29/2016	H255																					
4/29/2016	H256																					
4/29/2016	H257																					

NA = Not Analysed ND = No Discharge

Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin collection, flow data, conductance and pH by Centennial Natural Resources, LLC, balance of analysis by McGehee Engineering Corp.

Date Printed: 1/22/2016

Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502



ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.				6.0															O(Pass)	O(Pass)
4th Quarter, 2015		Average	Report	Report			35	Report	Report	Report	Report	Report	Report	Report	3.0	2.0		Report	Report	Report		
Permit #	AL0079936	Max.				9.0	70								6.0	4.0					1(Fail)	1(Fail)
		Freq.	1/Qtr	1/Qtr		2/mth	2/mth	1/Qtr	2/mth	2/mth	1/Qtr	1/Qtr	1/Qtr		2/mth	2/mth		1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr
Collect Date	Outfall	Flow MGD	Depth Feet		pH	TSS mg/L	Turb. NTU	SO4 mg/L	Cond µs/cm	Cl mg/L	Acidity mg/L	Alkalinity mg/L	TDS mg/L	Fe Tot mg/L	Mn Tot mg/L		Hg Tot µg/L	p.O mg/L	Temp °C	Acute Cond	Acute Bim	

Basin

10/7/2015	003	ND																				
10/20/2015	003	ND																				
11/3/2015	003	ND																				
11/17/2015	003	ND																				
12/4/2015	003	ND																				
12/29/2015	003	ND																				

Stream

11/12/2015	SW-1 US. Mulberry Fork	164.2			6.90	19	9.5	26	144.0	3.5	23	27		0.47	0.08		< 0.010	6.6	20.5		
11/12/2015	SW-2 DS. Mulberry Fork	161.6			6.74	5	6.5	24	128.9	3.0	18	34		0.33	0.05		< 0.010	7.6	19.0		
11/12/2015	SW-3 DS. Mulberry Fork	164.2			6.98	5	4.7	22	128.7	3.0	26	33		0.44	0.07		< 0.010	7.3	20.0		

Well

11/12/2015	H255		23.00		6.71			20	144.5					1.06	0.07						
11/12/2015	H256		7.00		6.61			42	296.0					1.69	0.03						
11/12/2015	H257		10.33		6.16			10	113.9					2.62	0.19						

John Morris

MEC John Morris
 Laboratory Manager

NA = Not Analysed ND = No Discharge

Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin collection, flow data, conductance and pH by Centennial Natural Resources, LLC, balance of analysis by McGehee Engineering Corp.

Date Printed: 10/26/2015

Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502



ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.				6.0														0(Pass)	0(Pass)
3rd Quarter, 2015		Average	Report	Report			35	Report	Report	Report	Report	Report	Report	3.0	2.0		Report	Report	Report		
Permit #	AL0079936	Max.				9.0	70							6.0	4.0					1(Fail)	1(Fail)
		Freq.	1/Qtr	1/Qtr		2/mth	2/mth	1/Qtr	2/mth	2/mth	1/Qtr	1/Qtr	1/Qtr	2/mth	2/mth		1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr
Collect Date	Outfall	Flow MGD	Depth Feet		pH	TSS mg/L	Turb NTU	SO4 mg/L	Cond µS/cm	Cl mg/L	Acidity mg/L	Alkalinity mg/L	TDS mg/L	Fe Tot mg/L	Mn Tot mg/L	Hg Tot µg/L	D/B mg/L	Temp °C	Arj Parity	Acute Fluor	

Basin

7/1/2015	003	ND																			
7/15/2015	003	ND																			
8/13/2015	003	ND																			
8/27/2015	003	ND																			
9/10/2015	003	ND																			
9/23/2015	003	ND																			

Stream

7/31/2015	SW-1 US. Mulberry Fork	143.5			6.22	39	17	19	121.0	4	14	36		0.32	0.12		<0.010	7.8	27.0		
7/31/2015	SW-2 DS. Mullberry Fork	143.5			6.35	9	5.3	24	146.2	7	24	48		0.15	0.05		<0.010	10.0	27.3		
7/31/2015	SW-3 DS. Mulberry Fork	143.5			6.54	17	8.8	22	135.6	7	20	83		0.42	0.10		<0.010	8.9	26.9		

Well

7/31/2015	H255		24.00		6.00			11	238.0					56.43	0.38						
7/31/2015	H256		9.00		6.17			71	350.0					1.63	0.12						
7/31/2015	H257		11.00		5.91			32	180.0					17.77	1.16						

John Morris

MEC John Morris
 Laboratory Manager

NA = Not Analysed ND = No Discharge

Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin collection, flow data, conductance and pH by Centennial Natural Resources, LLC, balance of analysis by McGehee Engineering Corp.

Date Printed: 7/21/2015

Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502



ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.																			
2nd Quarter, 2015		Average	Report	Report			Report	Report	Report	Report	Report	Report	Report		Report	Report		Report		Report	Report
Permit #	AL0079936	Max.																			
		Freq.	1/Qtr	1/Qtr			1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr		1/Qtr	1/Qtr		1/Qtr		1/Qtr	1/Qtr

Collect Date	Point	Flow (MGD)	Depth (Feet)	pH	TSS (mg/L)	Turb (NTU)	SO4 (mg/L)	Cond. (us/cm)	Cl (mg/L)	Acidity (mg/L)	Alkalinity (mg/L)	Hg (ug/L)	Mn (ug/L)	Pb (ug/L)	Cd (ug/L)	Cu (ug/L)	Zn (ug/L)	Cr (ug/L)	Se (ug/L)	As (ug/L)	Mo (ug/L)	Co (ug/L)	Ni (ug/L)	Ag (ug/L)	Bi (ug/L)	Be (ug/L)	B (ug/L)	Br (ug/L)	C (ug/L)	F (ug/L)	I (ug/L)	Sr (ug/L)	V (ug/L)	W (ug/L)	U (ug/L)
--------------	-------	------------	--------------	----	------------	------------	------------	---------------	-----------	----------------	-------------------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	----------	-----------	----------	----------	----------	-----------	----------	----------	----------

Stream

5/12/2015	SW-1 US. Mulberry Fork	678.5			8.35	12	8.2	37	155.3	4	0	40		0.23	0.24		<0.010		11.6	20.2																
5/12/2015	SW-2 DS. Mulberry Fork	646.2			8.48	12	6.3	41	190.8	12	0	35		0.14	0.10		<0.010		11.3	20.1																
5/12/2015	SW-3 DS. Mulberry Fork	704.4			8.51	9	6.9	40	181.5	6	0	38		0.14	0.12		<0.010		11.4	20.4																

Well

5/12/2015	H255		23.00		6.40			11	215.3					8.24	0.20																					
5/12/2015	H256		9.00		5.96			104	288.0					12.14	0.17																					
5/12/2015	H257		10.00		5.78			42	194.3					23.48	1.07																					

John Morris

MEC John Morris
 Laboratory Manager

NA = Not Analysed ND = No Discharge

Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin data submitted by Centennial Natural Resources under separate cover.

Date Printed: 7/21/2015

Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502



ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.																							
2nd Quarter, 2015		Average	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	
Permit #	AL0079936	Max.																							
Collect	Outfall	Freq.	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	
Date			Al	Sb	As	Be	Cd	Ca	Cr	Cu	Pb	Mg	Ni	K	Se	Ag	Na	Ti	Zn	Iron					
			µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Stream																									
5/12/2015	SW-1 US. Mulberry Fork	0.03	< 1.92	0.52	< 2.20	< 0.08	18.21	< 1.64	< 0.90	< 0.31	8.08	< 6.86	2.04	< 0.95	< 0.15	4.18	< 0.08	< 16.45	78.70						
5/12/2015	SW-2 DS. Mulberry Fork	0.05	< 1.92	0.77	< 2.20	< 0.08	18.64	< 1.64	< 0.90	< 0.31	8.05	< 6.86	2.07	< 0.95	< 0.15	5.14	< 0.08	< 16.45	79.70						
5/12/2015	SW-3 DS. Mulberry Fork	0.04	< 1.92	0.53	< 2.20	< 0.08	18.05	< 1.64	< 0.90	< 0.31	8.02	< 6.86	2.01	< 0.95	< 0.15	5.22	< 0.08	< 16.45	78.10						
Well																									
5/12/2015	H255																								
5/12/2015	H256																								
5/12/2015	H257																								

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Permit Limit Exceeded

NOTE: Streams and Wells collected and analyzed by McGehee Engineering Corp. Basin data submitted by Centennial Natural Resources under separate cover.

Date Printed: 4/24/2015

Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502



ASMC #: P3957 - No. 5 Mine

HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.																			
1st Quarter, 2015		Average	Report	Report		Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	
Permit #	AL0079936	Max.																			
	Freq.	1/Qtr	1/Qtr			1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr		1/Qtr	1/Qtr		1/Qtr	1/Qtr	1/Qtr	
Collect Date	Outfall	Flow MGD	Depth feet			pH	TSS mg/L	Turb. NTU	SO4 mg/L	Cond µS/cm	Cl mg/L	Acidity mg/L	Alkalinity mg/L		Fe Tot mg/L	Mn Tot mg/L		Ni Tot µg/L	Pb mg/L	Temp °C	

Stream

2/10/2015	SW-1 US. Mulberry Fork	969.4				6.29	11	11	33	149.8	4	6	28		0.85	0.25		< 0.010		10.4	10.5
2/10/2015	SW-2 DS. Mulberry Fork	937.1				6.50	8	9.3	31	160.5	4	4	32		0.53	0.11		< 0.010		10.3	11.7
2/10/2015	SW-3 DS. Mulberry Fork	1053				6.46	17	8.4	30	162.6	6	6	34		0.76	0.19		< 0.010		10.7	12.9

Well

2/10/2015	H255		23.00			6.83			20	158.2					0.91	0.19					
2/10/2015	H256		7.00			6.28			90	313.0					12.19	0.20					
2/10/2015	H257		10.00			5.86			37	212.7					25.54	1.20					

MEC John Morris
 Laboratory Manager

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Date Printed: 4/24/2015

Company: Centennial Natural Resources
 P.O. Box 2420
 Jasper, AL 35502



ASMC #: P3957 - No. 5 Mine

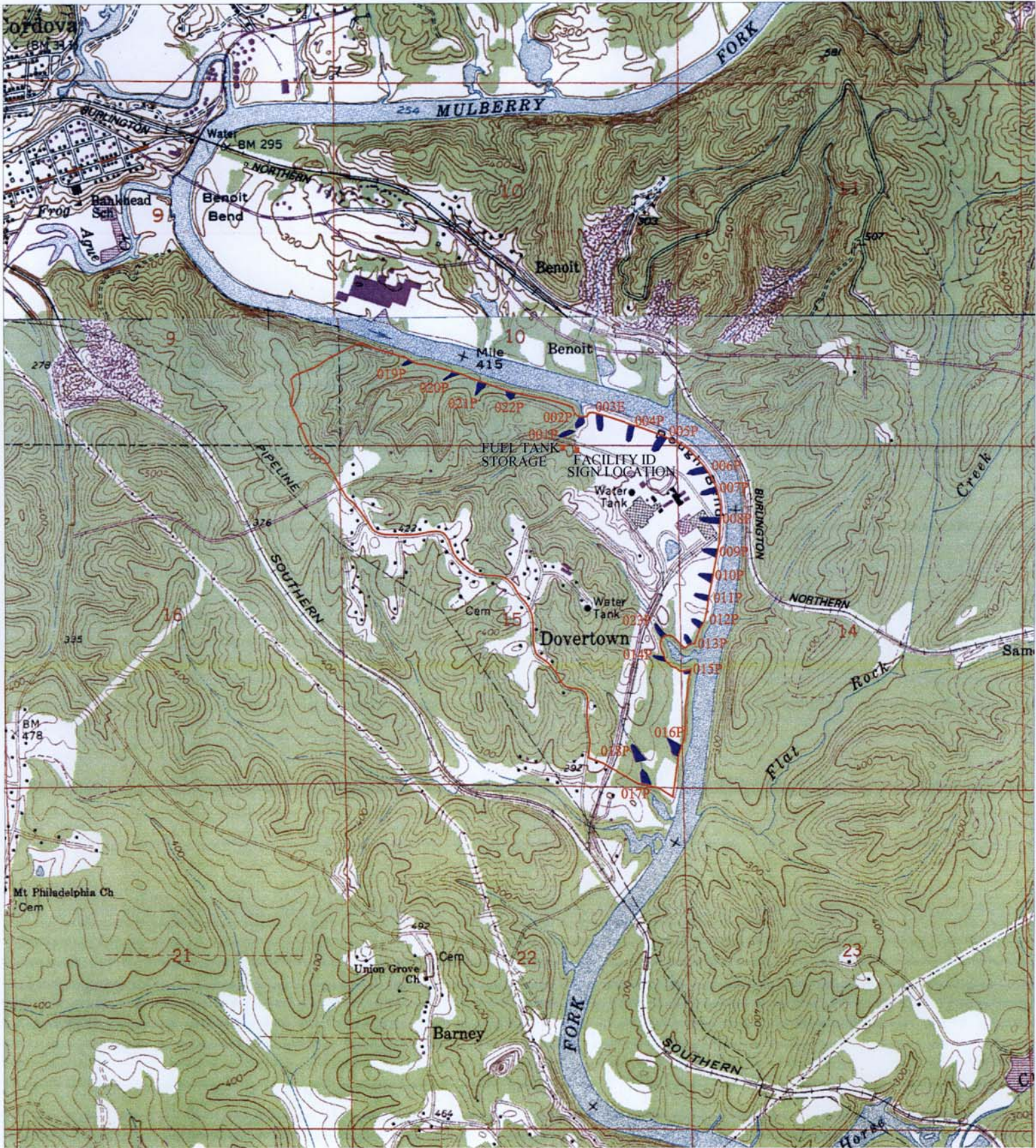
HYDROLOGIC MONITORING REPORT

P3957 - No. 5 Mine		Min.																					
1st Quarter, 2015		Average	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	Report	
Permit #	AL0079936	Max.																					
Collect	Outfall	Freq.	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	1/Qtr	
Date			Al	Sb	As	Ba	Cd	Ca	Cr	Cu	Pb	Mg	Ni	K	Se	Ag	Na	Tl	Zn	Iron			
			mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L		
Stream																							
2/10/2015	SW-1 US. Mulberry Fork		0.28	< 1.92	0.54	< 2.20	< 0.08	11.52	< 1.64	< 0.90	0.35	6.68	< 6.86	2.06	< 0.95	< 0.15	5.36	< 0.08	< 16.45	56.30			
2/10/2015	SW-2 DS. Mullberry Fork		0.26	< 1.92	0.43	< 2.20	< 0.08	14.50	< 1.64	< 0.90	0.31	6.67	< 6.86	2.27	< 0.95	< 0.15	5.51	< 0.08	< 16.45	63.70			
2/10/2015	SW-3 DS. Mulberry Fork		0.43	< 1.92	0.55	< 2.20	< 0.08	14.58	< 1.64	1.82	0.85	6.57	< 6.86	2.36	< 0.95	0.43	5.41	< 0.08	< 16.45	63.50			
Well																							
2/10/2015	H255																						
2/10/2015	H256																						
2/10/2015	H257																						



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Permit Limit Exceeded

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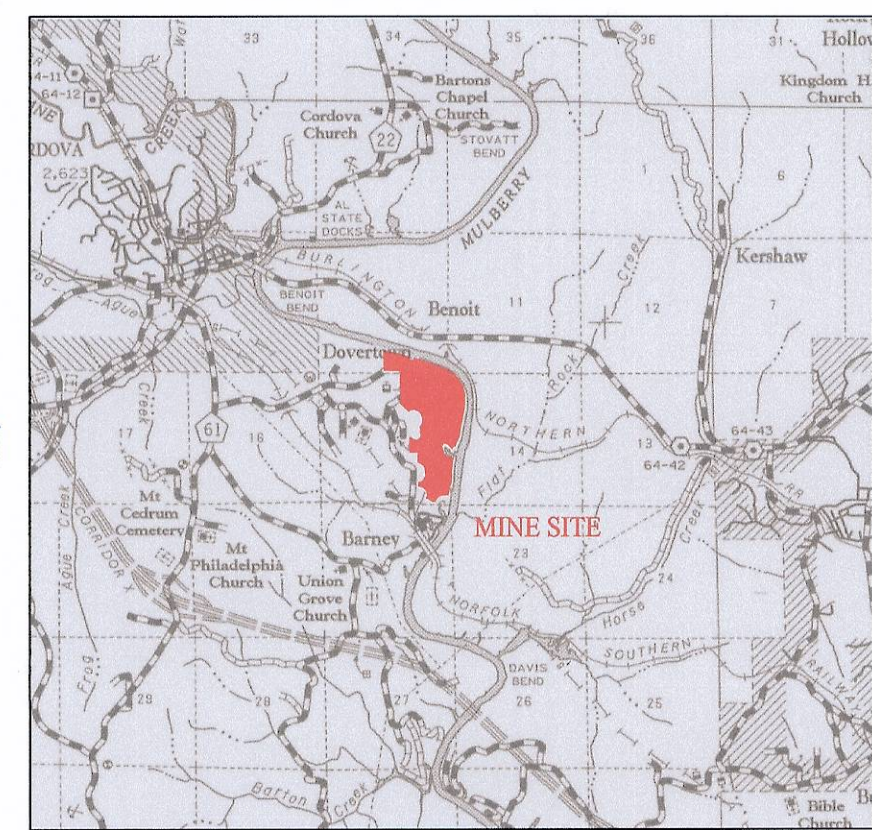
CENTENNIAL NATURAL RESOURCES, LLC
 NO. 5 MINE
 NPDES PERMIT MAP
 AL0079936

-  Permit Boundary
-  Sediment Basin



SECTIONS 9, 10, 11, 14, 15, 16 & 22
 TOWNSHIP 15 SOUTH, RANGE 6 WEST
 WALKER COUNTY, ALABAMA
 BASE MAP: GOODSPRINGS USGS QUAD.
 SCALE: 1" = 2000'

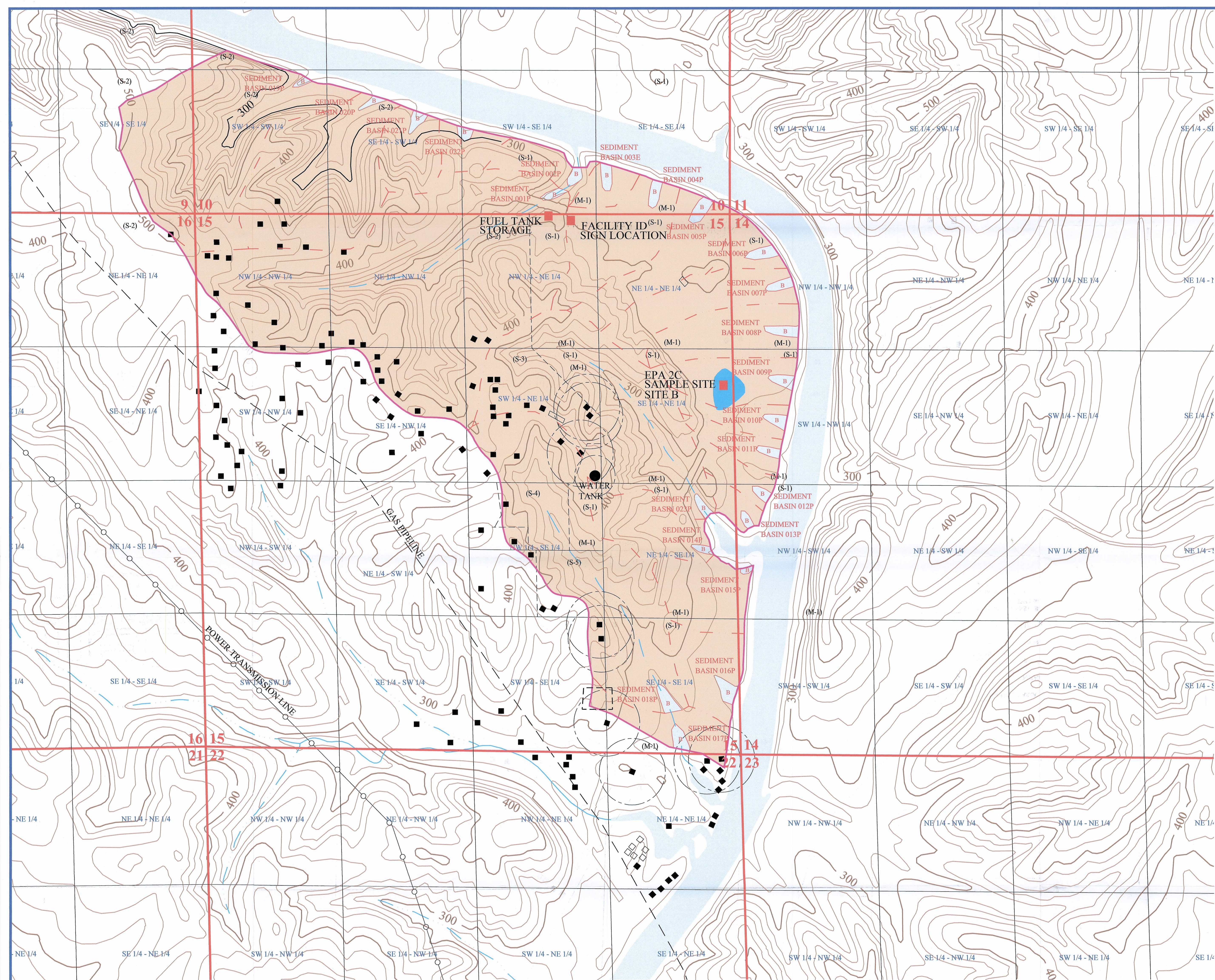
VICINITY MAP



SCALE: 1" = 1.5 MILES

MAP LEGEND

- NPDES PERMIT BOUNDARY
- PREVIOUSLY SURFACE MINED
- SURFACE OWNERSHIP DIVIDE OTHER THAN QUARTER/QUARTER LINE
- MINERAL OWNERSHIP DIVIDE OTHER THAN QUARTER/QUARTER LINE
- (S-1) SURFACE OWNERSHIP
- (M-1) MINERAL OWNERSHIP
- (F-1) FEE OWNERSHIP (SURFACE & MINERAL)
- HW EXISTING HIGHWAY
- A % A' RECLAMATION CROSS-SECTION/ SLOPE MEASUREMENT
- PUBLIC ROAD
- PRIVATE ROAD
- PRIMARY ROAD
- ANCILLARY ROAD
- SETBACK
- DRAINAGE COURSE
- INTERMITTENT AND/OR PERENNIAL STREAM
- DRAINAGE DIVIDE
- GAS LINE
- 100 FT. STREAM SETBACK
- OCCUPIED DWELLING
- UNOCCUPIED BUILDING/BARN, SHED, ETC.
- DIVERSION DITCH
- COAL STOCKPILE
- TOPSOIL STOCKPILE
- LAND HOOK
- MW-1 GROUNDWATER MONITORING SITE
- UNDERGROUND MINE OPENING
- SEDIMENT BASIN
- IMPOUNDED WATER



CONTOUR INTERVAL: 20 FT.

SECTIONS 10, 14 & 15,
TOWNSHIP 15 SOUTH, RANGE 6 WEST,
ALL IN WALKER COUNTY, ALABAMA.
BASE MAP: GOODSPRINS & CORDOVA U.S.G.S. QUAD.

CENTENNIAL NATURAL
RESOURCES, LLC

NO. 5 MINE

NPDES PERMIT MAP

FILE: NO. 5 MINE	SCALE: 1" = 400'	JOB NO.:
APPROVED BY: C.W.M.	DATE: 04/10/17	SHEET NO.: 1 OF 1

NOTES:

- NO BUILDINGS WITHIN 1,000' OF PERMIT AREA OTHER THAN SHOWN.
- LAND HOOK CONVEYS SURFACE AND MINERAL OWNERSHIP.
- SURFACE AND MINERAL OWNERSHIP BY FORTY EXCEPT WHERE NOTED OTHERWISE.
- LOCATION OF COAL AND TOPSOIL STOCKPILES ARE SUBJECT TO CHANGE.
- NO CITY OR TOWN LIMITS EXIST WITHIN 1,000' OF PERMIT AREA OTHER THAN SHOWN.
- NO CITY OR TOWN POLICE JURISDICTIONS EXIST WITHIN 1,000' OF PERMIT AREA OTHER THAN SHOWN.
- NO TOPSOIL STOCKPILES SHOWN DUE TO TOPSOIL VARIANCE REQUEST.

OWNERSHIP LEGEND

SURFACE OWNERSHIP

- (S-1) REED ENERGY, LLC
- (S-2) ALAWEST
- (S-3) W H & TOMMIE JEAN CORDELL
- (S-4) KATHLEEN BARNETT
- (S-5) LOUISE GARNER

MINERAL OWNERSHIP

- (M-1) CORDOVA INDUSTRIAL DEVELOPMENT BOARD

post office box 3431
jasper, alabama 35502-3431
telephone: (205) 221-0686 fax: 221-7721
email: cw@mcgehee.org

Centennial Natural Resources, L.L.C.
113 Hollis Crump Drive
Jasper, AL 35501-3507

Detach Statement Before Depositing

Check Number 00005128
Check Date 03/23/17
Vendor Number 134480

Invoice		Description	Gross	Deductions	Amount Paid
Number	Date				
ADEM-3/21/17	03/21/17	Mine#5 NPDES Renewal	6,835.00		6,835.00

334639



450 19th Street West • Jasper, AL 35502-3431

CERTIFIED MAIL



Water, Mining

**RETURN-RECEIPT
REQUESTED**

Field Operations – MNPS
Alabama Department of Environmental Management
ATTN: Ms. Ketera Wright
1400 Coliseum Boulevard
Montgomery, AL 36110-2059

