ADEQ DRAFT MINOR SOURCE AIR PERMIT

Permit No.: 2215-AR-1

IS ISSUED TO:

Consolidated Grain and Barge Co. 896 S. Walker Avenue West Memphis, AR 72301 Crittenden County AFIN: 18-00881

THIS PERMIT IS THE ABOVE REFERENCED PERMITTEE'S AUTHORITY TO CONSTRUCT, MODIFY, OPERATE, AND/OR MAINTAIN THE EQUIPMENT AND/OR FACILITY IN THE MANNER AS SET FORTH IN THE DEPARTMENT'S MINOR SOURCE AIR PERMIT AND THE APPLICATION. THIS PERMIT IS ISSUED PURSUANT TO THE PROVISIONS OF THE ARKANSAS WATER AND AIR POLLUTION CONTROL ACT (ARK. CODE ANN. § 8-4-101 *ET SEQ*.) AND THE REGULATIONS PROMULGATED THEREUNDER, AND IS SUBJECT TO ALL LIMITS AND CONDITIONS CONTAINED HEREIN.

Signed:

Stuart Spencer Associate Director, Office of Air Quality Date

Table of Contents

1
5
5
5
5
5
7
3
2
3

List of Acronyms and Abbreviations

Arkansas Code Annotated
ADEQ Facility Identification Number
Code of Federal Regulations
Carbon Monoxide
Hazardous Air Pollutant
Pound Per Hour
Number
Nitrogen Oxide
Particulate Matter
Particulate Matter Smaller Than Ten Microns
Sulfur Dioxide
Tons Per Year
Universal Transverse Mercator
Volatile Organic Compound

Section I: FACILITY INFORMATION

PERMITTEE:	Consolidated Grain and Barge Co.
AFIN:	18-00881
PERMIT NUMBER:	2215-AR-1
FACILITY ADDRESS:	896 S. Walker Avenue West Memphis, AR 72301
MAILING ADDRESS:	896 S. Walker Avenue West Memphis, AR 72301
COUNTY:	Crittenden County
CONTACT NAME:	Clint Noyes
CONTACT POSITION:	Facility Manager
TELEPHONE NUMBER:	(618) 779-4781
REVIEWING ENGINEER:	John Mazurkiewicz
UTM North South (Y):	Zone 15: 3891838.87 m
UTM Fast Wast (V).	Zono 15, 750705 54 m

UTM East West (X): Zone 15: 759705.54 m

Section II: INTRODUCTION

Summary of Permit Activity

Consolidated Grain & Barge Co. (CGB) operates a barge loading facility located in West Memphis, Arkansas, at 896 S. Walker Ave. The facility unloads grain from trucks and transfers products to barges and occasionally to trucks. This permit includes the following revisions to Permit No.: 2215-A.

• The permitted grain and propane throughput at the Grain Dryer #1 and 2 (SN-05 and SN-06) has increased to allow additional drying operations. Combined throughput for the dryers is limited to 10,000,000 bushels of grain, and 300,000 gallons of propane per rolling 12-month period.

As a result of this modification, permitted emissions increase 12.5 tpy PM; 3.2 tpy PM_{10} ; 0.2 tpy SO_2 ; 0.1 tpy VOC; 0.5 tpy CO; 0.8 tpy NO_X , and 0.15 tpy Total HAPs.

Process Description

Consolidated Grain & Barge Co. (CGB) currently operates a barge loading facility on the Mississippi River in West Memphis. This facility unloads grain from trucks from the surrounding area and transfers product to barges and occasionally to trucks. The emission points are at the truck receiving pits where the grain is unloaded from the truck trailers and enters the pits, bin vents, grain dryers, truck and barge spouts.

From the pits, the grain is either elevated into a grain bin, transferred to a truck loadout or transferred directly onto the river belt, which discharges the grain through a barge loading spout into the barge. The river conveyor is covered and enclosed. Each truck pit is equipped with a dust collection system at the facility to control dust on the four truck receiving pits and pit conveyors.

The facility also has seven (7) other dust control devises on their enclosed handling conveyors. They are fully enclosed separators in which suspended dust is collected in a fully enclosed filter at that specific point and then it is a purge system in which the suspended dust that is collected in the filters is put back into the fully enclosed handling conveyor. These units are not in use at the facility currently, however, in the event they ever would be put in use, they are part of the fully enclosed internal handling system. No new emission points need to be added to the permit, there will be no additional emission points.

Regulations

The following table contains the regulations applicable to this permit.

Regulations
Arkansas Air Pollution Control Code, Regulation 18, effective March 14, 2016
Regulations of the Arkansas Plan of Implementation for Air Pollution Control, Regulation 19, effective March 14, 2016

Total Allowable Emissions

The following table is a summary of emissions from the facility. This table, in itself, is not an enforceable condition of the permit.

TOTAL ALLOWABLE EMISSIONS		
Pollutant	Emission Rates	
Fonutant	lb/hr	tpy
PM	55.7	64.9
PM ₁₀	15.9	18.0
SO ₂	0.2	0.3
VOC	0.2	0.2
СО	1.0	1.2
NO _x	1.8	2.0
PM _{2.5}	See Note*	
Total HAPs	0.14	0.15

*PM_{2.5} limits are source specific, if required. Not all sources have PM_{2.5} limits.

Section III: PERMIT HISTORY

The facility previously operated under a Registration (No. 2215-A-REG315).

Permit #: 2215-A was issued June 16, 2017. This was the initial minor source air permit for the facility. Annual emission limits established in this permit were 52.4 tpy PM, 14.8 tpy PM_{10} , 0.1 tpy SO₂, 0.1 tpy VOC, 0.7 tpy CO and 1.2 tpy NO_x .

Section IV: EMISSION UNIT INFORMATION

Specific Conditions

1. The permittee shall not exceed the emission rates set forth in the following table. [Reg.19.501 *et seq.* and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN	Description	Pollutant	lb/hr	tpy
01	Storage Bin #1	PM ₁₀	1.6	
02	Storage Bin #2	PM ₁₀	0.3	2.0
03	Storage Bin #3	PM ₁₀	0.3	2.8
04	Storage Bin #4	PM ₁₀	0.3	
05	Grain Dryer #1	PM ₁₀ SO ₂ VOC CO NO _x	3.4 0.1 0.1 0.5 0.9	7.9 0.3 0.2
06	Grain Dryer #2	PM ₁₀ SO ₂ VOC CO NO _x	3.4 0.1 0.1 0.5 0.9	0.2 1.2 2.0
07	Dump Pit #1 Controlled	PM_{10}	0.2	
08	Dump Pit #2 Controlled	PM ₁₀	0.2	0.0
09	Dump Pit #3 Controlled	PM ₁₀	0.2	0.9
10	Dump Pit #4 Controlled	PM ₁₀	0.2	
07a	Dump Pit #1 Fugitive	PM ₁₀	1.0	
08a	Dump Pit #2 Fugitive	PM ₁₀	1.0	
09a	Dump Pit #3 Fugitive	PM ₁₀	1.0	4.4
10	Dump Pit #4 Fugitive	PM ₁₀	1.0	
11	Internal Transfer (Conveyor)	PM ₁₀	0.3	0.3
12	Barge Loadout	PM ₁₀	1.3	1.5
13	Truck Loadout	PM ₁₀	0.2	0.2

2. The permittee shall not exceed the emission rates set forth in the following table. [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN	Description	Pollutant	lb/hr	tpy
01	Storage Bin #1	PM	6.3	
02	Storage Bin #2	РМ	1.1	11.1
03	Storage Bin #3	РМ	1.1	11.1
04	Storage Bin #4	РМ	1.1	
05	Grain Dryer #1	PM Total HAPs	13.3 0.07	31.0
06	Grain Dryer #2	PM Total HAPs	13.3 0.07	0.15
07	Dump Pit #1 Controlled	PM	0.6	
08	Dump Pit #2 Controlled	РМ	0.6	2.7
09	Dump Pit #3 Controlled	РМ	0.6	2.1
10	Dump Pit #4 Controlled	РМ	0.6	
07a	Dump Pit #1 Fugitive	РМ	2.8	
08a	Dump Pit #2 Fugitive	РМ	2.8	13.2
09a	Dump Pit #3 Fugitive	РМ	2.8	15.2
10	Dump Pit #4 Fugitive	РМ	2.8	
11	Internal Transfer (Conveyor)	PM	0.4	0.5
12	Barge Loadout	РМ	5.0	5.8
13	Truck Loadout	РМ	0.5	0.6

3. Visible emissions may not exceed the limits specified in the following table of this permit as measured by EPA Reference Method 9. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN	Limit	Regulatory Citation
05 and 06	20%	Reg.19.503
01-04 and 11-13	20%	Reg.18.501

SN	Limit	Regulatory Citation
07, 08, 09,10	Dust Filter System: 10%	Reg.18.501
07a, 08a, 09a,10a	Dump Fugitives: 20%	Reg.19.503

- 4. The permittee shall not cause or permit the emission of air contaminants, including odors or water vapor and including an air contaminant whose emission is not otherwise prohibited by Regulation 18, if the emission of the air contaminant constitutes air pollution within the meaning of Ark. Code Ann. § 8-4-303. [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 5. The permittee shall not conduct operations in such a manner as to unnecessarily cause air contaminants and other pollutants to become airborne. [Reg.18.901 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 6. The permittee shall not exceed a receipt of 42,000,000 bushels of grain at the facility per rolling 12-month period. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 7. The permittee shall maintain monthly records to demonstrate compliance with Specific Condition #6. The permittee shall update these records by the fifteenth day of the month following the month to which the records pertain. The twelve-month rolling totals and each individual month's data shall be maintained on-site and made available to Department personnel upon request. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 8. The permittee shall not use more than 300,000 gallons of propane at both SN- 05 and SN- 06 combined per rolling 12-month period. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 9. The permittee shall maintain monthly records to demonstrate compliance with the throughput limit in Specific Condition #8. The permittee shall update these records by the fifteenth day of the month following the month to which the records pertain. The twelve month rolling totals and each individual month's data shall be maintained on-site and made available to Department personnel upon request. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 10. The permittee shall not exceed a throughput of 10,000,000 bushels of grain at the Grain Dryer #1 and 2 (SN-05 and SN-06) combined per rolling 12-month period. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

- 11. The permittee shall maintain monthly records to demonstrate compliance with Specific Condition #10. The permittee shall update these records by the fifteenth day of the month following the month to which the records pertain. The twelve-month rolling totals and each individual month's data shall be maintained on-site and made available to Department personnel upon request. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 12. The permittee shall not exceed a throughput of 41,000,000 bushels of grain at SN- 12 (Barge Loadout) per rolling 12-month period. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 13. The permittee shall maintain monthly records to demonstrate compliance with Specific Condition #12. The permittee shall update these records by the fifteenth day of the month following the month to which the records pertain. The twelve month rolling totals and each individual month's data shall be maintained on-site and made available to Department personnel upon request. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 14. The permittee shall not exceed a throughput of 1,000,000 bushels of grain at SN- 13 (Truck Loadout) per rolling 12 month period. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 15. The permittee shall maintain monthly records to demonstrate compliance with Specific Condition #14. The permittee shall update these records by the fifteenth day of the month following the month to which the records pertain. The twelve-month rolling totals and each individual month's data shall be maintained on-site and made available to Department personnel upon request. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

Section V: INSIGNIFICANT ACTIVITIES

The Department deems the following types of activities or emissions as insignificant on the basis of size, emission rate, production rate, or activity in accordance with Group A of the Insignificant Activities list found in Regulation 18 and Regulation 19 Appendix A. Group B insignificant activities may be listed but are not required to be listed in permits. Insignificant activity emission determinations rely upon the information submitted by the permittee in an application dated February 24, 2017. [Reg.19.408 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

Description	Category
None	

Section VI: GENERAL CONDITIONS

- Any terms or conditions included in this permit that specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*) as the sole origin of and authority for the terms or conditions are not required under the Clean Air Act or any of its applicable requirements, and are not federally enforceable under the Clean Air Act. Arkansas Pollution Control & Ecology Commission Regulation 18 was adopted pursuant to the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*). Any terms or conditions included in this permit that specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*) as the origin of and authority for the terms or conditions are enforceable under this Arkansas statute.
- 2. This permit does not relieve the owner or operator of the equipment and/or the facility from compliance with all applicable provisions of the Arkansas Water and Air Pollution Control Act and the regulations promulgated under the Act. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 3. The permittee shall notify the Department in writing within thirty (30) days after each of the following events: commencement of construction, completion of construction, first operation of equipment and/or facility, and first attainment of the equipment and/or facility target production rate. [Reg.19.704 and/or Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 4. Construction or modification must commence within eighteen (18) months from the date of permit issuance. [Reg.19.410(B) and/or Reg.18.309(B) and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 5. The permittee must keep records for five years to enable the Department to determine compliance with the terms of this permit such as hours of operation, throughput, upset conditions, and continuous monitoring data. The Department may use the records, at the discretion of the Department, to determine compliance with the conditions of the permit. [Reg.19.705 and/or Reg.18.1004 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 6. A responsible official must certify any reports required by any condition contained in this permit and submit any reports to the Department at the address below. [Reg.19.705 and/or Reg.18.1004 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

Arkansas Department of Environmental Quality Office of Air Quality ATTN: Compliance Inspector Supervisor

> 5301 Northshore Drive North Little Rock, AR 72118-5317

- 7. The permittee shall test any equipment scheduled for testing, unless stated in the Specific Conditions of this permit or by any federally regulated requirements, within the following time frames: (1) newly constructed or modified equipment within sixty (60) days of achieving the maximum production rate, but no later than 180 days after initial start up of the permitted source or (2) existing equipment already operating according to the time frames set forth by the Department. The permittee must notify the Department of the scheduled date of compliance testing at least fifteen (15) business days in advance of such test. The permittee must submit compliance test results to the Department within sixty (60) calendar days after the completion of testing. [Reg.19.702 and/or Reg.18.1002 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 8. The permittee shall provide: [Reg.19.702 and/or Reg.18.1002 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
 - a. Sampling ports adequate for applicable test methods;
 - b. Safe sampling platforms;
 - c. Safe access to sampling platforms; and
 - d. Utilities for sampling and testing equipment
- 9. The permittee shall operate equipment, control apparatus and emission monitoring equipment within their design limitations. The permittee shall maintain in good condition at all times equipment, control apparatus and emission monitoring equipment. [Reg.19.303 and/or Reg.18.1104 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 10. If the permittee exceeds an emission limit established by this permit, the permittee will be deemed in violation of said permit and will be subject to enforcement action. The Department may forego enforcement action for emissions exceeding any limits established by this permit provided the following requirements are met: [Reg.19.601 and/or Reg.18.1101 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
 - a. The permittee demonstrates to the satisfaction of the Department that the emissions resulted from an equipment malfunction or upset and are not the result of negligence or improper maintenance, and the permittee took all reasonable measures to immediately minimize or eliminate the excess emissions.
 - b. The permittee reports the occurrence or upset or breakdown of equipment (by telephone, facsimile, or overnight delivery) to the Department by the end of the next business day after the occurrence or the discovery of the occurrence.
 - c. The permittee must submit to the Department, within five business days after the occurrence or the discovery of the occurrence, a full, written report of such occurrence, including a statement of all known causes and of the scheduling and

> nature of the actions to be taken to minimize or eliminate future occurrences, including, but not limited to, action to reduce the frequency of occurrence of such conditions, to minimize the amount by which said limits are exceeded, and to reduce the length of time for which said limits are exceeded. If the information is included in the initial report, the information need not be submitted again.

- 11. The permittee shall allow representatives of the Department upon the presentation of credentials: [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
 - a. To enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of this permit;
 - b. To have access to and copy any records required to be kept under the terms and conditions of this permit, or the Act;
 - c. To inspect any monitoring equipment or monitoring method required in this permit;
 - d. To sample any emission of pollutants; and
 - e. To perform an operation and maintenance inspection of the permitted source.
- 12. The Department issued this permit in reliance upon the statements and presentations made in the permit application. The Department has no responsibility for the adequacy or proper functioning of the equipment or control apparatus. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 13. The Department may revoke or modify this permit when, in the judgment of the Department, such revocation or modification is necessary to comply with the applicable provisions of the Arkansas Water and Air Pollution Control Act and the regulations promulgated the Arkansas Water and Air Pollution Control Act. [Reg.19.410(A) and/or Reg.18.309(A) and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 14. This permit may be transferred. An applicant for a transfer must submit a written request for transfer of the permit on a form provided by the Department and submit the disclosure statement required by Arkansas Code Annotated §8-1-106 at least thirty (30) days in advance of the proposed transfer date. The permit will be automatically transferred to the new permittee unless the Department denies the request to transfer within thirty (30) days of the receipt of the disclosure statement. The Department may deny a transfer on the basis of the information revealed in the disclosure statement or other investigation or, deliberate falsification or omission of relevant information. [Reg.19.407(B) and/or Reg.18.307(B) and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

- 15. This permit shall be available for inspection on the premises where the control apparatus is located. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 16. This permit authorizes only those pollutant emitting activities addressed herein. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 17. This permit supersedes and voids all previously issued air permits for this facility. [Reg. 18 and/or Reg. 19 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 18. The permittee must pay all permit fees in accordance with the procedures established in Regulation 9. [Ark. Code Ann. § 8-1-105(c)]
- 19. The permittee may request in writing and at least 15 days in advance of the deadline, an extension to any testing, compliance or other dates in this permit. No such extensions are authorized until the permittee receives written Department approval. The Department may grant such a request, at its discretion in the following circumstances:
 - a. Such an extension does not violate a federal requirement;
 - b. The permittee demonstrates the need for the extension; and
 - c. The permittee documents that all reasonable measures have been taken to meet the current deadline and documents reasons it cannot be met.

[Reg.18.314(A) and/or Reg.19.416(A), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]

- 20. The permittee may request in writing and at least 30 days in advance, temporary emissions and/or testing that would otherwise exceed an emission rate, throughput requirement, or other limit in this permit. No such activities are authorized until the permittee receives written Department approval. Any such emissions shall be included in the facility's total emissions and reported as such. The Department may grant such a request, at its discretion under the following conditions:
 - a. Such a request does not violate a federal requirement;
 - b. Such a request is temporary in nature;
 - c. Such a request will not result in a condition of air pollution;
 - d. The request contains such information necessary for the Department to evaluate the request, including but not limited to, quantification of such emissions and the date/time such emission will occur;
 - e. Such a request will result in increased emissions less than five tons of any individual criteria pollutant, one ton of any single HAP and 2.5 tons of total HAPs; and
 - f. The permittee maintains records of the dates and results of such temporary emissions/testing.

[Reg.18.314(B) and/or Reg.19.416(B), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]

- 21. The permittee may request in writing and at least 30 days in advance, an alternative to the specified monitoring in this permit. No such alternatives are authorized until the permittee receives written Department approval. The Department may grant such a request, at its discretion under the following conditions:
 - a. The request does not violate a federal requirement;
 - b. The request provides an equivalent or greater degree of actual monitoring to the current requirements; and
 - c. Any such request, if approved, is incorporated in the next permit modification application by the permittee.

[Reg.18.314(C) and/or Reg.19.416(C), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]

22. Any credible evidence based on sampling, monitoring, and reporting may be used to determine violations of applicable emission limitations. [Reg.18.1001, Reg.19.701, Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]