



**State of Mississippi**



**FEDERALLY ENFORCEABLE AIR POLLUTION CONTROL PERMIT**

Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

**THIS CERTIFIES**  
Magnolia Frac Sand, LLC  
100 State Park Road  
Natchez, MS  
Adams County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with the Federal Clean Air Act and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. set., Mississippi Code of 1972), the regulations and standards adopted and promulgated thereunder, and the State Implementation Plan for operating permits for synthetic minor sources.

**Mississippi Environmental Quality Permit Board**

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**Mississippi Department of Environmental Quality**

Issued/Modified: **FEB 21 2017**

Expires: **JAN 31 2022**

Permit No. 0040-00052

Agency Interest # 201

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## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

Magnolia Frac Sand, LLC  
 Subject Item Inventory  
 Permit Number:0040-00052  
 Activity ID No.: PER20160003

### Subject Item Inventory:

ID	Designation	Description
AI201		Sand Drying and Screening Plant
EQPT2	AA-001	100 Ton/hour Sand Dryer Equipped with a 35 MMBTU/hr Natural Gas-fired burner and a Baghouse
EQPT5	AA-004	Sand Elevator, Screen, and Silo Equipped with a Baghouse
EQPT6	AA-005	Sand Elevator, Screen, and Silo Equipped with a Baghouse

### Receiving Stream Relationships:

Subject Item	Relationship	Receiving Stream
AI 201 Sand Drying and Screening Plant	Discharges Into	Saint Catherine Creek

<u>KEY</u>	
ACT = Activity	AI = Agency Interest
AREA = Area	CAFO = Concentrated Animal Feeding Operation
CONT = Control Device	EQPT = Equipment
IA = Insignificant Activity	IMPD = Impoundment
MAFO = Animal Feeding Operation	PCS = PCS
RPNT = Release Point	TRMT = Treatment
WDPT = Withdrawal Point	

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

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### AI0000000201 Sand Drying and Screening Plant:

#### Limitation Requirements:

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Condition No.	Parameter	Condition
L-1		For the entire facility, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity to obscure an observer's view to a degree in excess of 40%, as determined by EPA Test Method 9, 40 CFR Part 60, Appendix A. [11 Miss. Admin. Code Pt. 2, R. 1.3.B.]
L-2		For the entire facility, the permittee shall not allow the emission of particulate matter in total quantities in any one hour from any manufacturing process, which includes any associated stacks, vents, outlets, or combination thereof, to exceed the amount determined by the relationship $E = (4.1) \cdot (p^{0.67})$ , where E is the emission rate in pounds per hour and p is the process weight input rate in tons per hour. (Conveyor discharge of coarse solid matter may be allowed if no nuisance is created beyond the property boundary where the discharge occurs.). [11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).]
L-3		For the entire facility, the permittee shall limit total particulate matter emissions to no more than 99.0 tons per year as determined for each consecutive 12-month period. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]
L-4		For the entire facility, the permittee shall limit sulfur dioxide emissions to no more than 99.0 tons per year as determined for each consecutive 12-month period. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]
L-5		Dust from truck traffic and other fugitive emissions on plant property shall be kept to a minimum. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]

#### Monitoring Requirements:

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Condition No.	Parameter	Condition
M-1		For the entire facility, the permittee shall determine the quantity of particulate matter producing materials collected on a monthly basis and in any consecutive 12-month period. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).]

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### AI0000000201 (continued):

#### Record-Keeping Requirements:

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Condition No.	Condition
R-1	For the entire facility, the permittee shall maintain sufficient records to document:  (a) the quantity of particulate matter producing materials collected on a monthly basis and in any consecutive 12-month period; and  (b) particulate matter emissions in tons per year for any consecutive 12-month period. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]

#### Submittal/Action Requirements:

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Condition No.	Condition
S-1	Except as otherwise specified herein, the permittee shall Submit a certified annual synthetic minor monitoring report: Due annually, by the 31st of January for preceding calendar year. This report shall address any required monitoring specified in the permit. [11 Miss. Admin.Code Pt. 2, R.2.2.B(11).]
S-2	General Condition: Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) working days of the time the deviation began. [11 Miss. Admin.Code Pt. 2, R.2.2.B(10).]

#### Narrative Requirements:

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Condition No.	Condition
T-1	General Condition: Any activities not identified in the application are not authorized by this permit. [Miss. Code Ann. 49-17-29 1.b]
T-2	General Condition: The permittee shall at all times maintain in good working order and operate as efficiently as possible all air pollution control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. [11 Miss. Admin. Code Pt. 2, R. 2.5.A.]

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### AI0000000201 (continued):

#### Narrative Requirements:

Condition No.	Condition
T-3	General Condition: Solids removed in the course of control of air emissions shall be disposed of in a manner such as to prevent the solids from becoming windborne and to prevent the materials from entering state waters without the proper environmental permits. [Miss. Code Ann. 49-17-29 1.a(i and ii)]
T-4	General Condition: Any diversion from or bypass of collection and control facilities is prohibited except as provided for in 11 Miss. Admin. Code Pt.2, R. 1.10, "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants", [11 Miss. Admin.Code Pt. 2, R.1.10.]
T-5	General Condition: Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule. [11 Miss. Admin.Code Pt. 2, R.2.10.]
T-6	General Condition: The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their authorized representatives, upon the presentation of credentials: (a) To enter upon the permittee's premises where an air emission source is located or in which any records are required to be kept under the terms and conditions of this permit, and (b) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any air emission. [Miss. Code Ann. 49-17-21]
T-7	General Condition: After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to: (a) Violation of any terms or conditions of this permit (b) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or (c) A change in any condition that required either a temporary or permanent reduction or elimination of authorized air emissions. [11 Miss. Admin.Code Pt. 2, R. 2.2.C.]
T-8	General Condition: This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. Sufficient cause for this permit to be reopened shall exist when an air emissions stationary source becomes subject to Title V. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of the permit. [11 Miss. Admin.Code Pt. 2, R.2.2.B(15)(b).]
T-9	General Condition: Except for data determined to be confidential under the Mississippi Air & Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Department of Environmental Quality Office of Pollution Control. [Miss. Code Ann. 49-17-39]

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

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### AI0000000201 (continued):

#### Narrative Requirements:

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Condition No.	Condition
T-10	General Condition: The issuance of 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 private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations. [11 Miss. Admin.Code Pt. 2, R. 2.2.B(15)(c).]
T-11	General Condition: Nothing herein contained shall be construed as releasing the permittee from any liability for damage to persons or property by reason of the installation, maintenance, or operation of the air cleaning facility, or from compliance with the applicable statutes of the State, or with local laws, regulations, or ordinances. [11 Miss. Admin.Code Pt. 2, R. 2.2.B(7).]
T-12	General Condition: This permit may only be transferred upon approval of the Mississippi Environmental Quality Permit Board. [11 Miss. Admin. Code Pt. 2, R. 2.16.B.]
T-13	General Condition: This permit is for air pollution control purposes only. [11 Miss. Admin.Code Pt. 2, R. 2.1.D(1).]
T-14	General Condition: This permit is a Federally-approved permit to operate a synthetic minor source as described in 11 Miss. Admin. Code Pt. 2, R. 2.4.D [11 Miss. Admin.Code Pt. 2, R. 2.4.D.]
T-15	General Condition: The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. [11 Miss. Admin.Code Pt. 2, R. 2.1.D(7).]
T-16	General Condition: The permittee shall furnish to MDEQ within a reasonable time any information MDEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to MDEQ copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee shall furnish such records to MDEQ along with a claim of confidentiality. [11 Miss. Admin.Code Pt. 2, R. 2.2.B(15)(d).]

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### AI0000000201 (continued):

#### Narrative Requirements:

Condition No.	Condition
T-17	<p>General Condition: This permit does not authorize a modification as defined in 11 Miss. Admin. Code Pt. 2, Ch. 2 "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment". Modification is defined as "Any physical change in or change in the method of operation of a facility which increases actual emissions or potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:</p> <ul style="list-style-type: none"><li>(a) routine maintenance, repair, and replacement;</li><li>(b) use of an alternative fuel or raw material by reason of an order under Sections 2(a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;</li><li>(c) use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;</li><li>(d) use of an alternative fuel or raw material by a stationary source which: (i) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166; or (ii) the source is approved to use under any permit issued under 40 CFR 52.51 or under regulations approved pursuant to 40 CFR 51.166;</li><li>(e) an increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.51, or under regulations approved pursuant to Subpart I or 40 CFR 51.166; or</li><li>(f) any change in ownership of the stationary source" [11 Miss. Admin.Code Pt. 2, R. 2.1.D(2).]</li></ul>
T-18	<p>General Condition: It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit unless halting or reducing activity would create an imminent and substantial endangerment threatening the public health and safety of the lives and property of the people of this state. [11 Miss. Admin.Code Pt. 2, R.2.2.B(15)(a).]</p>
T-19	<p>General Condition: The permittee shall retain all required records, monitoring data, supported information and reports for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings or other data for continuous monitoring instrumentation, and copies of all reports required by this permit. Copies of such records shall be submitted to MDEQ as required by Applicable Rules and Regulations or this permit upon request. [11 Miss. Admin.Code Pt. 2, R.2.9.]</p>
T-20	<p>General Condition: The knowing submittal of a permit application with false information may serve as the basis for the Permit Board to void the permit issued pursuant thereto or subject the applicant to penalties for constructing or operating without a valid permit. [11 Miss. Admin.Code Pt. 2, R.2.2.B(5).]</p>



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### AI0000000201 (continued):

#### Narrative Requirements:

Condition No.	Condition
T-21	<p>General Condition: Emergencies</p> <p>(a) Except as otherwise specified herein, an emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</p> <p>(b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.</p> <p>(c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence as follows: (i) an emergency occurred and that the permittee can identify the cause(s) of the emergency; (ii) the permitted facility was at the time being properly operated; (iii) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and (iv) the permittee submitted notice of the emergency to MDEQ within two (2) working days of the time when emission limitations were exceeded due to the emergency which contained a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.</p> <p>(d) In any enforcement proceeding, the permittee seeking to establish the occurrence of any emergency has the burden of proof.</p> <p>(e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein [11 Miss. Admin.Code Pt. 2, R.2.2.B(10).]</p>
T-22	<p>General Condition: Upsets</p> <p>(a) The occurrence of an upset constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards or other requirements of Applicable Rules and Regulations or any applicable permit if the permittee demonstrates through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows: (i) an upset occurred and that the permittee can identify the cause(s) of the upset; (ii) the source was at the time being properly operated; (iii) during the upset the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit; (iv) the permittee submitted notice of the upset to the DEQ within five (5) working days of the time the upset began which contained a description of the upset, any steps taken to mitigate emissions, and corrective actions taken.</p> <p>(b) In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.</p> <p>(c) This provision is in addition to any upset provision contained in any applicable requirement. [11 Miss. Admin.Code Pt. 2, R.1.10.]</p>

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### AI0000000201 (continued):

#### Narrative Requirements:

Condition No.	Condition
T-23	<p>General Condition: Startups and Shutdowns</p> <p>(a) Startups and shutdowns are part of normal source operation. Emissions limitations applicable to normal operation apply during startups and shutdowns except as follows: (i) when sudden, unavoidable breakdowns occur during a startup or shutdown, the event may be classified as an upset subject to the requirements above; (ii) when a startup or shutdown is infrequent, the duration of excess emissions is brief in each event, and the design of the source is such that the period of excess emissions cannot be avoided without causing damage to equipment or persons; or (iii) when the emissions standards applicable during a startup or shutdown are defined by other requirements of Applicable Rules and Regulations or any applicable permit.</p> <p>(b) In any enforcement proceeding, the permittee seeking to establish the applicability of any exception during a startup or shutdown has the burden of proof.</p> <p>(c) In the event this startup and shutdown provision conflicts with another applicable requirement, the more stringent requirement shall apply. [11 Miss. Admin.Code Pt. 2, R.1.10.]</p>
T-24	<p>General Condition: Maintenance</p> <p>(a) Maintenance should be performed during planned shutdown or repair of process equipment such that excess emissions are avoided. Unavoidable maintenance that results in brief periods of excess emissions and that is necessary to prevent or minimize emergency conditions or equipment malfunctions constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards, or other regulatory requirements if the permittee can demonstrate the following: (i) the permittee can identify the need for the maintenance; (ii) the source was at the time being properly operated; (iii) during the maintenance the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit; (iv) the permittee submitted notice of the maintenance to MDEQ within five (5) working days of the time the maintenance began or such other times as allowed by MDEQ, which contained a description of the maintenance, any steps taken to mitigate emissions, and corrective actions taken.</p> <p>(b) In any enforcement proceeding, the permittee seeking to establish the applicability of this section has the burden of proof.</p> <p>(c) In the event this maintenance provision conflicts with another applicable requirement, the more stringent requirement shall apply. [11 Miss. Admin.Code Pt. 2, R.1.10.]</p>
T-25	<p>General Condition: For renewal of this permit the applicant shall make application not less than one-hundred eighty (180) days prior to the expiration date of the permit substantiated with current emissions data, test results or reports or other data as deemed necessary by the Mississippi Environmental Quality Permit Board. [11 Miss. Admin.Code Pt. 2, R.2.8.]</p>

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### EQPT0000000002 (AA-001) 100 Ton/hour Sand Dryer Equipped with a 35 MMBTU/hr Natural Gas-fired burner and a Baghouse:

#### Limitation Requirements:

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Condition No.	Parameter	Condition
L-1	Particulate Matter	Particulate Matter $\leq$ 0.025 gr/dscf. [40 CFR 60.732(a)] Statistical basis: Maximum.
L-2	Opacity	Opacity $\leq$ 10 %, as determined by EPA Test Method 9, 40 CFR Part 60, Appendix A. [40 CFR 60.732(b)] Statistical basis: Six-Minute Average.
L-3	Sulfur Dioxide	Sulfur Dioxide $\leq$ 500 ppmv. [11 Miss. Admin. Code Pt. 2, R. 1.4.B(1).] Statistical basis: Maximum.

#### Narrative Requirements:

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Condition No.	Condition
T-1	For Emission Point AA-001, no person shall cause or permit the emission of gas containing sulfur oxides (measured as sulfur dioxide) in excess of 500 ppm (volume) from any process equipment constructed after January 25, 1972. [11 Miss. Admin. Code Pt. 2, R. 1.4.B(1).]
T-2	For Emission Point AA-001, the permittee shall monitor and maintain monthly records on the type, quantity, quality (sulfur content), and heating value of fuels combusted. The permittee shall maintain these records on a monthly basis. These records shall be kept in log form and kept on site for at least five (5) years and be made available to Office of Pollution Control personnel upon request. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]
T-3	For Emission Point AA-001, the permittee shall operate the pollution control equipment at all times the facility is in operation. The permittee shall perform regular inspections and any required maintenance each week or more often if necessary to maintain proper operation of the pollution control equipment.  The permittee shall maintain on hand at all times sufficient equipment as is necessary to repair and/or replace the pollution control equipment. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]
T-4	For Emission Point AA-001, the permittee is subject to and shall comply with all applicable requirements as stated in 40 CFR Part 60, Subpart UUU - New Source Performance Standards for Calciners and Dryers in Mineral Industries. [40 CFR 60.730]

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Magnolia Frac Sand, LLC  
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**EQPT0000000005 (AA-004) Sand Elevator, Screen, and Silo Equipped with a Baghouse:**

Limitation Requirements:

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Condition No.	Parameter	Condition
L-1	Opacity	Opacity <= 40 %, as determined by EPA Test Method 9, 40 CFR Part 60, Appendix A. [11 Miss. Admin. Code Pt. 2, R. 1.3.A(2).] Statistical basis: Six-Minute Average.

Narrative Requirements:

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Condition No.	Condition
T-1	For Emission Point AA-004, the permittee shall operate the pollution control equipment at all times the facility is in operation. The permittee shall perform regular inspections and any required maintenance each week or more often if necessary to maintain proper operation of the pollution control equipment. The permittee shall maintain on hand at all times sufficient equipment as is necessary to repair and/or replace the pollution control equipment. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]

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### EQPT0000000006 (AA-005) Sand Elevator, Screen, and Silo Equipped with a Baghouse:

#### Limitation Requirements:

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Condition No.	Parameter	Condition
L-1	Opacity	Opacity <= 40 %, as determined by EPA Test Method 9, 40 CFR Part 60, Appendix A. [11 Miss. Admin. Code Pt. 2, R. 1.3.A(2).] Statistical basis: Six-Minute Average.

#### Narrative Requirements:

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Condition No.	Condition
T-1	For Emission Point AA-005, the permittee shall operate the pollution control equipment at all times the facility is in operation. The permittee shall perform regular inspections and any required maintenance each week or more often if necessary to maintain proper operation of the pollution control equipment. The permittee shall maintain on hand at all times sufficient equipment as is necessary to repair and/or replace the pollution control equipment. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]

## GENERAL INFORMATION

Magnolia Frac Sand, LLC  
 100 State Park Road  
 Natchez, MS  
 Adams County

### Alternate/Historic Identifiers

ID	Alternate/Historic Name	User Group	Start Date	End Date
201	Magnolia Frac Sand, LLC	Official Site Name	12/17/1996	
2800100048	Magnolia Frac Sand, LLC	Air-AIRS AFS	10/12/2000	
004000048	W E Blain and Sons Inc	Air-State Operating	12/17/1996	
004000048	W E Blain and Sons Inc	Air-Construction	12/17/1996	11/9/1997
MSR700043	W. E. Blain and Sons, Inc., Cloverhill Asphalt Plant	GP-Asphalt	3/1/2002	11/30/2004
MSR700043	W. E. Blain and Sons, Inc., Natchez	GP-Asphalt	11/18/2004	7/31/2009
18705	Blain Sand and Gravel, Inc.	Official Site Name	7/24/1996	7/24/1996
MSU096143	Blain Sand and Gravel, Inc., Cloverhill Facility	Water - SOP	4/15/1997	4/3/2002
MSR320554	Blain Sand and Gravel, Inc., Cloverhill Facility	GP-Mining	4/3/1996	11/9/1997
MSU096143	Blain Sand and Gravel, Inc., Cloverhill Facility	Water - SOP	3/24/2004	2/28/2009
004000052	Blain Sand and Gravel, Inc., Cloverhill Facility	Air-Construction	7/11/2007	
004000052	W. E. Blain and Sons, Inc., Natchez	Air-Synthetic Minor Operating	9/14/2007	4/4/2012
189	Blain Sand and Gravel	Official Site Name	11/10/1992	11/10/1992
MSR320066	Blain Sand and Gravel Inc, Cedar Grove Pit	GP-Mining	11/10/1992	11/9/1997
MS0046680	Blain Sand and Gravel Inc, Cedar Grove Pit	Water - NPDES	11/12/1996	11/11/2001
A244T	Blain Sand & Gravel, Inc. Cedar Grove Pit	Geology-Mining-Application	2/11/1987	2/11/1987
P87006T	Blain Sand & Gravel, Inc. Cedar Grove Pit	Geology-Mining-Permit	2/11/1987	2/11/2012
A313T	Blain Sand & Gravel, Inc. Cedar Grove Pit	Geology-Mining-Application	7/1/1988	7/1/1988
P88026T	Blain Sand & Gravel, Inc. Cedar Grove Pit	Geology-Mining-Permit	7/1/1988	7/1/2008
A434	Blain Sand & Gravel, Inc. Cedar Grove Pit	Geology-Mining-Application	8/20/1991	8/20/1991
P91033	Blain Sand & Gravel, Inc. Cedar Grove Pit	Geology-Mining-Permit	8/20/1991	8/20/2011
A772	Blain Sand & Gravel, Inc. annual	Geology-Mining-Application	1/14/1994	1/14/1994
P94049	Blain Sand & Gravel, Inc. annual	Geology-Mining-Permit	4/28/1994	4/28/2009

## GENERAL INFORMATION

ID	Alternate/Historic Name	User Group	Start Date	End Date
MSR320554	W. E. Blain and Sons, Inc., Natchez	GP-Mining	11/17/2009	9/25/2013
MSR700043	W. E. Blain and Sons, Inc., Natchez	GP-Asphalt	12/17/2009	4/28/2015
A1014A	Blain Sand & Gravel, Inc, Cloverhill	Geology-Mining-Application	1/28/2010	
P96042	Blain Sand & Gravel, Inc,	Geology-Mining-Application	1/28/2010	3/26/2010
P96042A	Blain Sand & Gravel, Inc., Cloverhill Mine	Geology-Mining-Permit	3/26/2010	2/28/2015
004000052	Magnolia Frac Sand LLC	Air-Synthetic Minor Operating	4/4/2012	2/21/2017
MSR320554	W. E. Blain and Sons, Inc., Cloverhill Mine	GP-Mining	9/25/2013	8/31/2017
MSR700043	W. E. Blain and Sons, Inc., Natchez	GP-Asphalt	4/28/2015	2/29/2020
A1014AA	Blain Sand and Gravel, Inc, Clover Hill Mine	Geology-Mining-Application	7/25/1996	6/30/2021
P96042AA	Blain Sand & Gravel, Inc, Clovehill Mine	Geology-Mining-Permit	7/25/1996	6/30/2021
004000052	W E Blain and Sons Inc, Natchez	Air-Synthetic Minor Operating	2/21/2017	1/31/2022

**Basin:** South Independent Streams Basin

**Location Description:**PG- Plant Entrance (General). Data collected by Greg Miller on 11/01/2005. Elevation 426 feet.