

**Air Individual Permit  
Administrative Amendment  
12300391-101**

**Permittee:** BTHREE, LLC d.b.a. Altus Materials Corp

**Facility name:** Childs Rd Terminal  
2145 Childs Rd  
Saint Paul, MN 55106  
Ramsey County

**Operating permit issuance date:** November 17, 2006

**Expiration date:** Permit does not expire

**Administrative Amendment:** April 1, 2020

**Permit characteristics:** State; Limits to avoid Part 70/ Limits to avoid NSR

Each new or revised condition designated "Title I Condition: 40 CFR 50.6 (SIP for PM10)" is not effective or enforceable until approved by U.S. Environmental Protection Agency (EPA) as a State Implementation Plan (SIP) revision under Title I of the Clean Air Act.

The emission units, control equipment and emission stacks at the stationary source authorized in this permit amendment are as described in the submittals listed in the Permit Applications Table.

This permit amendment supersedes Air Emission Permit No. 12300391- 003 and authorizes the Permittee to operate the stationary source at the address listed above unless otherwise noted in the permit. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. (Any additions or changes to conditions incorporated into Minnesota's State Implementation Plan (SIP) under 40 CFR § 52.1220, designated "Title I Condition: 40 CFR 50.6 (SIP for PM10)" must go through the federal SIP approval process before becoming effective.) Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the SIP under 40 CFR § 52.1220 and as such are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

*Signature:* 

*This document has been electronically signed.*

*for the Minnesota Pollution Control Agency*

For Carolina Espejel-Schutt, P.E., Acting Manager  
Air Quality Permits Section  
Industrial Division

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**Permit issued:** April 1, 2020  
**Permit expires:** Non-expiring

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**1. Permit applications table**

Permit applications:

<b>Title description</b>	<b>Application receipt date</b>	<b>Action number</b>
State Permit	04/13/2006	12300391- 002
Major Amendment	04/17/2009	12300391- 003
Administrative Amendment	02/04/2016	12300391-101

## 2. Where to send submittals

Send submittals that are required to be submitted to the U.S. EPA regional office to:

Chief Air Enforcement  
Air and Radiation Branch  
EPA Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by Minn. R. 7007.0100 to 7007.1850 must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Other submittals shall be certified as appropriate if certification is required by an applicable rule or permit condition.

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency  
Clean Air Markets Division  
1200 Pennsylvania Avenue NW (6204N)  
Washington, D.C. 20460

Send any application for a permit or permit amendment to:

Fiscal Services – 6<sup>th</sup> Floor  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

Also, where required by an applicable rule or permit condition, send to the Permit Document Coordinator notices of:

- a. Accumulated insignificant activities
- b. Installation of control equipment
- c. Replacement of an emissions unit, and
- d. Changes that contravene a permit term

Unless another person is identified in the applicable Table, send all other submittals to:

AQ Compliance Tracking Coordinator  
Industrial Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

**Or**

Email a signed and scanned PDF copy to:  
[submitstacktest.pca@state.mn.us](mailto:submitstacktest.pca@state.mn.us)  
(for submittals related to stack testing)  
[AQRoutineReport.PCA@state.mn.us](mailto:AQRoutineReport.PCA@state.mn.us)  
(for other compliance submittals)  
(See complete email instructions in “Routine Air Report Instructions Letter” at  
<http://www.pca.state.mn.us/nwqh472.>)

### **3. Facility description**

The Childs Road Terminal (Facility) is located at 2145 Childs Rd in Saint Paul, Ramsey County, Minnesota.

Childs Road Terminal is a portland cement distribution terminal owned by BTHREE LLC d.b.a. Altus Materials Corp. The facility currently operates six silos with pollution control equipment used for storage and distribution of cementitious products. The material is currently delivered by truck and rail, stored in the silos, and distributed by truck.

The main sources of emissions are Particulate Matter (PM), and Particulate Matter less than 10 microns (PM10). The permit limits the emissions of the facility such that the facility is classified as a non-major source under federal New Source Review (NSR, 40 CFR § 52.21) and federal Operating Program (40 CFR pt. 70). The facility is part of the SIP to reach attainment of PM10 Ambient Air Quality Standards in the Ramsey County area. Permit No. 12300391-002 was approved and included into the Minnesota State Implementation Plan (SIP) by the U.S. Environmental Protection Agency (EPA), which effectively replaced the SIP Administrative Order on September 11, 2007 (72 FR 51713).

This is administrative amendment to the state operating permit to incorporate a change in ownership and a name change for the facility. The amendment also updates the citations for SIP requirements, and makes minor administrative and formatting changes to the permit requirements.

**4. Summary of subject items**

SI ID: Description	Relationship type	Related SI ID: Description
TFAC 1: Childs Road Terminal		
EQUI 1: Pneumatic Conveyance to Material Storage Silo No. 1	sends to	STRU 1: Silo No. 1
EQUI 1: Pneumatic Conveyance to Material Storage Silo No. 1	is controlled by	TREA 1: Fabric Filter - Low Temperature, i.e., T<180 Degrees F
EQUI 2: Pneumatic Conveyance to Material Storage Silo No. 2	sends to	STRU 2: Silo No. 2
EQUI 2: Pneumatic Conveyance to Material Storage Silo No. 2	is controlled by	TREA 2: Fabric Filter - Low Temperature, i.e., T<180 Degrees F
EQUI 3: Material Storage Silo Nos. 3-6	sends to	STRU 3: Silo Nos. 3-6
EQUI 3: Material Storage Silo Nos. 3-6	is controlled by	TREA 3: Fabric Filter - Low Temperature, i.e., T<180 Degrees F
EQUI 4: Truck Loading Operations	is controlled by	TREA 3: Fabric Filter - Low Temperature, i.e., T<180 Degrees F
FUGI 2: Unpaved Road	is controlled by	TREA 4: Dust Suppression by Chemical Stabilizers or Wetting Agents
STRU 1: Silo No. 1		
STRU 2: Silo No. 2		
STRU 3: Silo Nos. 3-6		
TREA 1: Fabric Filter - Low Temperature, i.e., T<180 Degrees F		
TREA 2: Fabric Filter - Low Temperature, i.e., T<180 Degrees F		
TREA 3: Fabric Filter -		

SI ID: Description	Relationship type	Related SI ID: Description
Low Temperature, i.e., T<180 Degrees F		
TREA 4: Dust Suppression by Chemical Stabilizers or Wetting Agents		

5. Limits and other requirements

Requirement number	Requirement and citation
<b>TFAC 1</b>	<b>Childs Road Terminal</b>
5.1.1	Process Throughput <= 1100 tons per day 24-hour rolling average. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.1.2	Process Throughput <= 100000 tons per year 12-month rolling average. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.1.3	ACTIVITIES NOT REQUIRING A MODIFICATION TO THE SIP: The Permittee is authorized to make changes to the facility without obtaining a modification to the SIP as long as the change does not increase from any emission point, the PM10 emission rates (either lb/hr or gr/dscf) or overall PM10 emissions, or alter equipment or parameters described in Appendix A, which forms the basis of the PM10 modeling. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.1.4	Remodeling for Attainment Demonstrate: Before making any physical changes or changes to the method of operation which may affect parameters listed in Appendix A, the Permittee shall demonstrate to the MPCA that the PM10 plume dispersion characteristics following the physical change or change in method of operation will be equivalent to or better than the PM10 dispersion characteristics modeled using the parameters in Appendix A. The information submitted must include, at a minimum, the locations, heights, and the diameters of the stacks, locations and dimensions of nearby buildings, the velocity and temperature of the gasses emitted, and the PM10 emission rates. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.1.5	ACTIVITIES REQUIRING A MODIFICATION TO THE SIP: Activities requiring a modification of the SIP prior to the Permittee commencing the activity include, but are not limited to, the following: 1. Any decrease in stack emissions exit velocity; 2. Any decrease in the exit point heat content of stack emissions; 3. Any reduction in stack height below that contained in Appendix A; 4. Any increase in stack exit diameter above that contained in Appendix A; and 5 Any construction or modification of structures that increase the effective structural dimensions. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.1.6	General Operation and Maintenance Requirements for the SIP: The Permittee shall operate and maintain the process and control equipment described in Appendix A according to the parameters set forth in Appendix A. The parameters were used in the computer modeling performed to demonstrate that the Childs Road portion of the PM10 maintenance area will attain compliance with the PM10

Requirement number	Requirement and citation
5.1.7	<p>NAAQS. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p> <p>Shutdown or Breakdown of Pollution Control Equipment: In an event of a shutdown or breakdown of pollution control equipment, the Permittee shall follow the shutdown and breakdown procedures found in Minn. R. 7019.1000. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
5.1.8	<p>Construction and Operation of SIP Emission Units: The Permittee may begin actual construction of new emission units or modification to existing emission units upon permit issuance. However, the Permittee shall not operate any new emission unit or modified emission unit until any required SIP amendment is approved by EPA. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
5.1.9	<p>Permanent Records for SIP: The Permittee shall permanently maintain the following information together with all amendments, revisions, and modifications to this information:</p> <ol style="list-style-type: none"> <li>1. The Permittee shall maintain a file or files of information on the design, construction and operation of each emission facility, emission source, stack, structures pertinent to modeling for downwash, and any other information required to conduct PM10 ambient air quality modeling of emissions from the facility.</li> <li>2. The Permittee shall maintain a file at the facility which includes all PM10 emission compliance demonstration plans which upon approval by the MPCA or EPA become integral and enforceable parts of the SIP. [40 CFR pt. 51, Minn. R. 7007.0800, subp. 5, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</li> </ol>
5.1.10	<p>Non-Permanent Records for SIP: The Permittee shall retain all records at the stationary source for a period of six (6) years from the date of the required monitoring, sample, measurement, or report that corresponds with a State Implementation Plan (SIP) Title I Condition include, but not limited to the following:</p> <ol style="list-style-type: none"> <li>1. Monitoring, Testing (if required by the Commissioner, and other Records);</li> <li>2. Startup, Shutdown, Bypass and Breakdown for each piece of process equipment, control equipment, emission stack, and monitoring system;</li> <li>3. Any exceedence of an emission limitation or opacity limitation and any noncompliance with an operational requirement at the facility;</li> <li>4. All required documents, records, reports and plans in a form suitable for determination of the facility's compliance with the SIP by EPA or MPCA staff.</li> </ol> <p>The Permittee shall maintain the information at the facility in files which are easily accessible of inspection by EPA or MPCA staff, and are available for inspection. [40 CFR pt. 51, Minn. R. 7007.0800,</p>



Requirement number	Requirement and citation
	subp. 5, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.1.11	<p>Recordkeeping of Material Throughput:</p> <ol style="list-style-type: none"> <li>1. The Permittee shall calculate and record the material throughput every 24 hours of operation; and</li> <li>2. The Permittee shall calculate and record the material throughput 12-month rolling average once a month. [40 CFR pt. 51, Minn. R. 7007.0800, subp. 5, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</li> </ol>
5.1.12	<p>Reporting: The Permittee may undertake certain changes to the facility without obtaining a modification to the SIP. However, if the Permittee does make a change, and if the change in any way affects PM10 emissions (reduces the amount or changes the concentration, size, character, velocity, direction, or location of PM10 emissions) the Permittee shall notify the Commissioner in writing at least 30 days prior to undertaking the change. The notification shall describe the change and why it does not require a modification of the SIP. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
5.1.13	<p>Annual Report for SIP: due 30 days after end of each calendar year following Permit Issuance to the Commissioner. The report shall contain the following information: a record of data used in calculating PM10 emissions, and calculations of the PM10 emissions; a record of each unscheduled startup, shutdown, and breakdown of process and control equipment; a summary record of excess PM10 emissions, opacity exceedances and noncompliance with fugitive emissions requirements (or the Permittee shall state if no exceedances, and noncompliance conditions occurred in the calendar year). [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
5.1.14	<p>The Permittee shall comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50, and the Minnesota Ambient Air Quality Standards, Minn. R. 7009.0020 to 7009.0090. Compliance shall be demonstrated upon written request by the MPCA. [40 CFR pt. 50, Minn. R. 7007.0100, subp. 7(A), 7(L), &amp; 7(M), Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subps. 1-2, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a, Minn. Stat. 116.07, subd. 9]</p>
5.1.15	<p>Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted. [Minn. R. 7011.0020]</p>
5.1.16	<p>Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated. [Minn. R. 7007.0800, subp. 16(J), Minn. R. 7007.0800, subp. 2]</p>
5.1.17	<p>Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O &amp; M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for</p>

Requirement number	Requirement and citation
	the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 16(J)]
5.1.18	Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate. [Minn. R. 7019.1000, subp. 4]
5.1.19	Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150. [Minn. R. 7011.0150]
5.1.20	Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act. [Minn. R. 7030.0010-7030.0080]
5.1.21	Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A). [Minn. R. 7007.0800, subp. 9(A)]
5.1.22	The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16. [Minn. R. 7007.0800, subp. 16]
5.1.23	Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in this permit. [Minn. R. ch. 7017]
5.1.24	<p>Performance Test Notifications and Submittals:</p> <p>Performance Test Notification and Plan: due 30 days before each Performance Test            Performance Test Pre-test Meeting: due 7 days before each Performance Test            Performance Test Report: due 45 days after each Performance Test</p> <p>The Notification, Test Plan, and Test Report must be submitted in a format specified by the commissioner. [Minn. R. 7017.2017, Minn. R. 7017.2030, subps. 1-4, Minn. R. 7017.2035, subps. 1-2]</p>
5.1.25	Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment

Requirement number	Requirement and citation
5.1.26	<p>incorporating the change. [Minn. R. 7017.2025, subp. 3]</p> <p>Monitoring Equipment Calibration - The Permittee shall either:</p> <ol style="list-style-type: none"><li>1. Calibrate or replace required monitoring equipment every 12 months; or</li><li>2. Calibrate at the frequency stated in the manufacturer's specifications.</li></ol> <p>For each monitor, the Permittee shall maintain a record of all calibrations, including the date conducted, and any corrective action that resulted. The Permittee shall include the calibration frequencies, procedures, and manufacturer's specifications (if applicable) in the Operations and Maintenance Plan. Any requirements applying to continuous emission monitors are listed separately in this permit. [Minn. R. 7007.0800, subp. 4(D)]</p>
5.1.27	<p>Operation of Monitoring Equipment: Unless noted elsewhere in this permit, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system. [Minn. R. 7007.0800, subp. 4(D)]</p>
5.1.28	<p>Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A). [Minn. R. 7007.0800, subp. 5(C)]</p>
5.1.29	<p>Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350, subp. 2), including records of the emissions resulting from those changes. [Minn. R. 7007.0800, subp. 5(B)]</p>
5.1.30	<p>If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For non-expiring permits, these records shall be kept for a period of five years from the date that the change was made. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format. [Minn. R. 7007.1200, subp. 4]</p>
5.1.31	<p>Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge</p>

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	<p>of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in items A, B, and C of Minn. R. 7019.1000, subp. 3.</p> <p>At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over. [Minn. R. 7019.1000, subp. 3]</p>
5.1.32	<p>Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in items A, B, and C of Minn. R. 7019.1000, subp. 2.</p> <p>At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over. [Minn. R. 7019.1000, subp. 2]</p>
5.1.33	<p>Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment. [Minn. R. 7019.1000, subp. 1]</p>
5.1.34	<p>Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description:</p> <ol style="list-style-type: none"><li>1. the cause of the deviation;</li><li>2. the exact dates of the period of the deviation, if the deviation has been corrected;</li><li>3. whether or not the deviation has been corrected;</li><li>4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and</li><li>5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation. [Minn. R. 7019.1000, subp. 1]</li></ol>
5.1.35	<p>Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.</p> <p>Upon adoption of a new or amended federal applicable requirement, and if there are 3 or more years</p>

Requirement number	Requirement and citation
	remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150 - 7007.1500]
5.1.36	Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H). [Minn. R. 7007.1400, subp. 1(H)]
5.1.37	Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance. Submit in a format specified by the Commissioner. [Minn. R. 7019.3000-7019.3100]
5.1.38	Emission Fees: due 30 days after receipt of an MPCA bill. [Minn. R. 7002.0005-7002.0085]
5.1.39	Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in Appendix A: Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS.  Modeling parameters in Appendices A are included for reference only as described elsewhere in this permit. [Minn. R. 7007.0800, subp. 2]
5.1.40	PERMIT SHIELD: Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.  This permit shall not alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance. [Minn. R. 7007.1800(A)(2)]
<b>EQUI 1</b>	<b>Pneumatic Conveyance to Material Storage Silo No. 1</b>
5.2.1	PM < 10 micron < 0.25 pounds per hour 24-hour rolling average. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.2.2	Particulate Matter < 0.02 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. The PTE for this unit is 0.25 lb/hr. [Minn. R. 7011.0715, subp. 1(A)]
5.2.3	Opacity <= 20 percent opacity, except for one six-minute period per hour of not more than 33 percent

Requirement number	Requirement and citation
	opacity. An exceedance of this opacity standard occurs whenever any one-hour period contains two or more six-minute periods during which the average opacity exceeds 20 percent or whenever any one-hour period contains one or more six-minute periods during which the average opacity exceeds 33 percent. [40 CFR pt. 51, Minn. R. 7011.0105, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
<b>EQUI 2</b>	<b>Pneumatic Conveyance to Material Storage Silo No. 2</b>
5.3.1	PM < 10 micron < 0.25 pounds per hour 24-hour rolling average. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.3.2	Particulate Matter < 0.02 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. The PTE of this unit is 0.25 lb/hr. [Minn. R. 7011.0715, subp. 1(A)]
5.3.3	Opacity <= 20 percent opacity, except for one six-minute period per hour of not more than 33 percent opacity. An exceedance of this opacity standard occurs whenever any one-hour period contains two or more six-minute periods during which the average opacity exceeds 20 percent or whenever any one-hour period contains one or more six-minute periods during which the average opacity exceeds 33 percent. [40 CFR pt. 51, Minn. R. 7011.0105, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
<b>EQUI 3</b>	<b>Material Storage Silo Nos. 3-6</b>
5.4.1	PM < 10 micron < 0.84 pounds per hour 24-hour rolling average. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.4.2	Particulate Matter < 0.02 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. The PTE of this unit is 0.84 lb/hr. [Minn. R. 7011.0715, subp. 1(A)]
5.4.3	Opacity <= 20 percent opacity, except for one six-minute period per hour of not more than 33 percent opacity. An exceedance of this opacity standard occurs whenever any one-hour period contains two or more six-minute periods during which the average opacity exceeds 20 percent or whenever any one-hour period contains one or more six-minute periods during which the average opacity exceeds 33 percent. [40 CFR pt. 51, Minn. R. 7011.0105, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
<b>EQUI 4</b>	<b>Truck Loading Operations</b>
5.5.1	PM < 10 micron <= 0.15 tons per year 24-hour rolling average. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.5.2	PM < 10 micron <= 0.15 tons per year 12-month rolling average. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]

Requirement number	Requirement and citation
<b>FUGI 2</b>	<b>Unpaved Road</b>
5.6.1	PM < 10 micron <= 0.30 tons per year 24-hour rolling average. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.6.2	PM < 10 micron <= 0.30 tons per year 12-month rolling average. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.6.3	<p>Operation Restrictions for Unpaved Roadways: The Permittee shall apply the chemical dust suppressant calcium chloride (CaCl<sub>2</sub>) or a substitute as approved by the Commissioner, to the unpaved roads at the Facility as follows:</p> <ol style="list-style-type: none"> <li>1. The Permittee shall apply CaCl<sub>2</sub> on all unpaved roadways at an initial rate of 1.5 pounds per square yard each April;</li> <li>2. The Permittee personnel shall perform an inspection of the unpaved roadways each day. If the roadways need further dust suppressant applied, the Permittee shall apply CaCl<sub>2</sub> at a rate of 0.5 pounds square yard to those areas where fugitive dust is observed;</li> <li>3. When there is no traffic on the unpaved roads or the facility is closed for the entire day, the Permittee does not need to perform daily inspections of the unpaved roadways;</li> <li>4. When the ground is frozen, no chemical dust suppressant needs to applied (approximately the calendar months of November through March); and</li> <li>5. If the Permittee decides to use a dust suppressant other than CaCl<sub>2</sub>, the Permittee shall first obtain written approval from the Commissioner. Upon receiving the MPCA approval, the Permittee shall apply the new dust suppressant according to the manufacturer's recommendations and any MPCA requirements set forth in the written approval. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</li> </ol>
5.6.4	Visible Emissions: The Permittee shall check for visible emissions when operating during daylight hours, on a daily basis. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.6.5	Recordkeeping: The Permittee shall record visible emissions once every 24 hours during operation of the unpaved roads and record if additional dust suppressant was applied and how much was applied. If there is no traffic on the unpaved roads or the facility is closed for the entire day, the Permittee shall record that information on a daily basis. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]

Requirement number	Requirement and citation
5.6.6	<p>Recordkeeping of Dust Application: The Permittee shall record the following:</p> <ol style="list-style-type: none"> <li>1. The day in April each year that initial application of dust suppressant was applied; and</li> <li>2. The dust suppressant application equipment breakdowns and repairs. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</li> </ol>
5.6.7	<p>Recordkeeping of Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed. The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 5]</p>
<b>TREA 1</b>	<b>Fabric Filter - Low Temperature, i.e., T&lt;180 Degrees F</b>
5.7.1	<p>The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM &lt; 10 micron <math>\geq</math> 99.0 percent control efficiency. [Minn. R. 7011.0065, subp. 1(A), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000, Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i)]</p>
5.7.2	<p>The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter <math>\geq</math> 99.0 percent control efficiency. [Minn. R. 7011.0065, subp. 1(A), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000, Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i)]</p>
5.7.3	<p>Pressure Drop &gt; 0.5 and &lt; 6 inches of water column during hours of operation. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
5.7.4	<p>Visible Emissions: The Permittee shall check the STRU 1 associated with TREA 1 for visible emissions when operating during daylight hours, on a daily basis. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
5.7.5	<p>Pressure Drop &gt; 0.5 and &lt; 6 inches of water column, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. [Minn. R. 7017.2025, subp. 3]</p>
5.7.6	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occurs:</p> <ul style="list-style-type: none"> <li>-visible emissions are observed;</li> <li>-recorded pressure drop is outside the required operating range; or</li> <li>-the fabric filter or any of its components are found during the inspections to need repair.</li> </ul>



Requirement number	Requirement and citation
	Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the Operation and Maintenance Plan for the fabric filter. [Minn. R. 7007.0800, subp. 5]
5.7.7	The Permittee submitted to the MPCA on a vendor certification of performance for TREA 1 and TREA 2 with permit application dated April 16, 2009. The certification is approved by the Commissioner. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.7.8	Recordkeeping of Pressure Drop. The Permittee shall record every 24 hours, if in operation, the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit and take the appropriate corrective actions. If pressure drop range exceed the permitted limit, the Permittee shall report it as a deviation in the Company's semiannual report. The permittee shall record every calendar day the total time the emission unit is in operation during that calendar day. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.7.9	Recordkeeping of Visible Emissions: The Permittee shall record every 24 hours during operation the time and date of each visible emission inspection and whether or not any visible emissions were observed, and take the appropriate corrective actions. If visible emissions exceed the permitted limit, the Permittee shall report it as a deviation in the Company's semiannual report. The permittee shall record every calendar day the total time the emission unit is in operation during that calendar day. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.7.10	Recordkeeping of corrective actions: The Permittee shall keep a record of the type and date of any corrective action taken for the fabric filter. [Minn. R. 7007.0800, subp. 5]
5.7.11	Operation and Maintenance of Fabric Filter: The Permittee shall maintain the fabric filter in proper operating condition. EQUI 1 shall not be operated unless the associated pollution control equipment (TREA 1) is also operated at all times. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.7.12	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.7.13	Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment

Requirement number	Requirement and citation
	for measuring and recording pressure drop as required by the permit. The monitoring equipment must be installed, in use, and properly maintained whenever the fabric filter is in operation. [Minn. R. 7007.0800, subp. 4]
<b>TREA 2</b>	<b>Fabric Filter - Low Temperature, i.e., T&lt;180 Degrees F</b>
5.8.1	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron $\geq$ 99.0 percent control efficiency. [Minn. R. 7011.0065, subp. 1(A), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000, Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i)]
5.8.2	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter $\geq$ 99.0 percent control efficiency. [Minn. R. 7011.0065, subp. 1(A), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000, Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i)]
5.8.3	Pressure Drop > 0.5 and < 6 inches of water column during hours of operation. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.8.4	Visible Emissions: The Permittee shall check the STRU 2 associated with TREA 2 for visible emissions when operating during daylight hours, on a daily basis. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.8.5	Pressure Drop > 0.5 and < 6 inches of water column, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. [Minn. R. 7017.2025, subp. 3]
5.8.6	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occurs:</p> <ul style="list-style-type: none"> <li>-visible emissions are observed;</li> <li>-recorded pressure drop is outside the required operating range; or</li> <li>-the fabric filter or any of its components are found during the inspections to need repair.</li> </ul> <p>Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the Operation and Maintenance Plan for the fabric filter. [Minn. R. 7007.0800, subp. 5]</p>
5.8.7	The Permittee submitted to the MPCA on a vendor certification of performance for TREA 1 and TREA 2 with permit application dated April 16, 2009. The certification is approved by the Commissioner.

Requirement number	Requirement and citation
	[40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.8.8	<p>Recordkeeping of Pressure Drop. The Permittee shall record every 24 hours, if in operation, the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit and take the appropriate corrective actions.</p> <p>If pressure drop range exceed the permitted limit, the Permittee shall report it as a deviation in the Company's semiannual report.</p> <p>The permittee shall record every calendar day the total time the emission unit is in operation during that calendar day. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
5.8.9	<p>Recordkeeping of Visible Emissions: The Permittee shall record every 24 hours during operation the time and date of each visible emission inspection and whether or not any visible emissions were observed, and take the appropriate corrective actions.</p> <p>If visible emissions exceed the permitted limit, the Permittee shall report it as a deviation in the Company's semiannual report.</p> <p>The permittee shall record every calendar day the total time the emission unit is in operation during that calendar day. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
5.8.10	<p>Recordkeeping of corrective actions: The Permittee shall keep a record of the type and date of any corrective action taken for the fabric filter. [Minn. R. 7007.0800, subp. 5]</p>
5.8.11	<p>Operation and Maintenance of Fabric Filter: The Permittee shall maintain the fabric filter in proper operating condition. EQUI 2 shall not be operated unless the associated pollution control equipment (TREA 2) is also operated at all times. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
5.8.12	<p>Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]</p>
5.8.13	<p>Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by the permit. The monitoring equipment must be installed, in use, and properly maintained whenever the fabric filter is in operation. [Minn. R. 7007.0800, subp. 4]</p>
<b>TREA 3</b>	<b>Fabric Filter - Low Temperature, i.e., T&lt;180 Degrees F</b>
5.9.1	<p>The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM &lt; 10 micron &gt;= 99.0 percent control efficiency. [Minn. R. 7011.0065, subp. 1(A), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000,</p>

Requirement number	Requirement and citation
	Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i)]
5.9.2	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter >= 99.0 percent control efficiency. [Minn. R. 7011.0065, subp. 1(A), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000, Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i)]
5.9.3	Pressure Drop > 2 and < 6 inches of water column during hours of operation. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.9.4	Visible Emissions: The Permittee shall check the STRU 3 associated with TREA 3 for visible emissions when operating during daylight hours, on a daily basis. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.9.5	Pressure Drop > 2 and < 6 inches of water column, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. [Minn. R. 7017.2025, subp. 3]
5.9.6	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occurs:</p> <ul style="list-style-type: none"> <li>-visible emissions are observed;</li> <li>-recorded pressure drop is outside the required operating range; or</li> <li>-the fabric filter or any of its components are found during the inspections to need repair.</li> </ul> <p>Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the Operation and Maintenance Plan for the fabric filter. [Minn. R. 7007.0800, subp. 5]</p>
5.9.7	<p>Recordkeeping of Pressure Drop. The Permittee shall record every 24 hours, if in operation, the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit and take the appropriate corrective actions.</p> <p>If pressure drop range exceed the permitted limit, the Permittee shall report it as a deviation in the Company's semiannual report.</p> <p>The permittee shall record every calendar day the total time the emission unit is in operation during that calendar day. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
5.9.8	Recordkeeping of Visible Emissions: The Permittee shall record every 24 hours during operation the

Requirement number	Requirement and citation
	time and date of each visible emission inspection and whether or not any visible emissions were observed, and take the appropriate corrective actions. If visible emissions exceed the permitted limit, the Permittee shall report it as a deviation in the Company's semiannual report. The permittee shall record every calendar day the total time the emission unit is in operation during that calendar day. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.9.9	Recordkeeping of corrective actions: The Permittee shall keep a record of the type and date of any corrective action taken for the fabric filter. [Minn. R. 7007.0800, subp. 5]
5.9.10	Operation and Maintenance of Fabric Filter: The Permittee shall maintain the fabric filter in proper operating condition. EQUI 3 shall not be operated unless the associated pollution control equipment (TREA 3) is also operated at all times. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
5.9.11	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.9.12	Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by the permit. The monitoring equipment must be installed, in use, and properly maintained whenever the fabric filter is in operation. [Minn. R. 7007.0800, subp. 4]

**6. Submittal/action requirements**

This section lists most of the submittals required by this permit. Please note that some submittal requirements may appear in the Limits and Other Requirements section, or, if applicable, within a Compliance Schedule section.

Requirement number	Requirement and citation
<b>TFAC 1</b>	<b>Childs Road Terminal</b>
6.1.1	The Permittee shall submit a semiannual deviations report : Due semiannually, by the 30th of January and July. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. Submit this on form DRF-2

Requirement number	Requirement and citation
6.1.2	<p>(Deviation Reporting Form). If no deviations have occurred, submit the signed report certifying that there were no deviations. [Minn. R. 7007.0800, subp. 6(A)(2)]</p> <p>Annual Report: due 30 days after end of each calendar year starting 11/17/2006 to the Commissioner. The report shall contain the following information: a record of data used in calculating PM10 emissions, and calculations of the PM10 emissions; a record of each unscheduled startup, shutdown, and breakdown of process and control equipment; a summary record of excess PM10 emissions, opacity exceedances and noncompliance with fugitive emissions requirements (or the Permittee shall state if no exceedances, and noncompliance conditions occurred in the calendar year). submit an annual report : Due 30 calendar days after 11/17/2006 annually. [40 CFR pt. 51, Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
6.1.3	<p>The Permittee shall submit a compliance certification : Due annually, by the 31st of January (for the previous calendar year). Submit this on form CR-04 (Annual Compliance Certification Report). This report covers all deviations experienced during the calendar year. If no deviations have occurred, submit the signed report certifying that there were no deviations. [Minn. R. 7007.0800, subp. 6(C)]</p>

## 7. Appendices

**Appendix A: Title I Condition: State Implementation Plan (SIP) for PM<sub>10</sub> NAAQS**

**PM<sub>10</sub> Point Source Modeling Parameters Relied Upon to Demonstrate Compliance with NAAQS**

Source ID	EQUI; STRU; TREA	Source Description	Emission Rate		Location UTM NAD83		Base Elev (m)	Stack Height (m)	Stack Temp (K)	Stack Exit Vel. (m/s)	Stack Dia (m)
			g/s	lb/hr	X (m)	Y (m)					
SILO1	EQUI 1; STRU 1; TREA 1	Silo No. 1 (new material)	0.0318	0.25	496283.1	4975465	213	25.6	293	9.7	0.305
SILO2	EQUI 2; STRU 2; TREA 2	Silo No. 2 (new material)	0.0318	0.25	496289.7	4975468	213	25.6	293	9.7	0.305
SILO3_6	EQUI 3; STRU 3; TREA 3	Silo No. 3-6 (fly ash)	0.1058	0.84	496279.2	4975480	213	31.09	293	31.35	0.309

**PM<sub>10</sub> Volume Source Modeling Parameters**

Source ID	FUGI	Source Description	Emission Rate		Location UTM NAD83		Base Elev (m)	Release Height (m)	$\sigma_y$ (m)	$\sigma_z$ (m)
			g/s	lb/hr	X (m)	Y (m)				
UNLOAD	EQUI 4	Silo Unloading and Truck Loading	4.25E-03	3.37E-02	496285.3	4975474	213	3	1.41	1.39
TRUCK	FUGI 2 TREA 4	Fugitive Emissions from Truck Traffic	8.58E-03	6.81E-02	496285.3	4975474	213	1	11.4	0.85

DEPARTMENT : POLLUTION CONTROL AGENCY

SF-00006-05(4/86)  
STATE OF MINNESOTA

# Office Memorandum

DATE : August 2, 2006

TO : Amrill Okonkwo  
Air Quality Permits Section  
Industrial Division

FROM : Chris Nelson  
Risk Assessment/Air Modeling Environmental  
Analysis & Outcomes Division

PHONE : 651/296-7750

SUBJECT : Lafarge – Childs Road (DELTA ID 12300391) PM<sub>10</sub> NAAQS Compliance Modeling

Lafarge submitted air dispersion modeling results for the Childs Road Terminal to support their proposed permit and Administrative Order amendment on November 22, 2005. The analysis was updated April 6, 2006. Lafarge – Childs Road is located in a Particulate Matter less than 10 microns (PM<sub>10</sub>) maintenance area southeast of downtown St. Paul. Subsequent discussions with EPA Region V lead me to further update the modeling analysis.

MPCA's updated analysis used AERMOD rather than ISCST3, utilizing MPCA-developed meteorological data. Model options, emissions, and source characterization remained the same. I added PM<sub>10</sub> sources from the nearby Metropolitan Council Environmental Services (MCES) wastewater treatment plant. The MCES data came from an 11/14/05 modeling data submittal and a June 2001 PM<sub>10</sub> air dispersion modeling analysis, submitted by MCES in support of a SIP amendment. Model details are listed below.

- Regulatory default options
- Urban dispersion coefficients with URBANOPT (population = 287151)
- Elevated terrain with AERMAP processed elevations
- 1986-90 meteorology – Minneapolis surface data and St. Cloud upper air data

Refined data for other nearby (within 2 km) PM<sub>10</sub> sources was not available. I do not expect those sources to have a significant impact on the modeled receptor grid, based on their emissions, source type, and proximity. Impacts from PM<sub>10</sub> sources at the southern end of the PM<sub>10</sub> maintenance area were not explicitly included in the model but should be captured in the background concentrations, taken from a PM<sub>10</sub> monitor located on Red Rock Road (in the immediate vicinity those sources).

The modeling analysis used a receptor grid comprised of the Lafarge fence-line receptors and those receptors where Lafarge had a significant impact (impacts greater than PSD Significant Impact Levels [SILs]). The highest 6th-high 24-hour PM<sub>10</sub> impact was 13.9 micrograms per cubic



meter ( $\mu\text{g}/\text{m}^3$ ). Maximum combined annual  $\text{PM}_{10}$  impacts were  $4.3 \mu\text{g}/\text{m}^3$ . I took  $\text{PM}_{10}$  background concentrations from the most recent 5 years of data at the nearby Red Rock Road ambient monitor. Concentrations represent maximum measured 24-hour and annual  $\text{PM}_{10}$  concentrations. Model results are listed in Table 1. The 24-hour  $\text{PM}_{10}$  National Ambient Air Quality Standard (NAAQS) is  $150 \mu\text{g}/\text{m}^3$ . The annual  $\text{PM}_{10}$  NAAQS is  $50 \mu\text{g}/\text{m}^3$ .

**Table 1. Modeled  $\text{PM}_{10}$  Impacts of Lafarge and MCES WWTP**

Averaging Time	Concentrations ( $\mu\text{g}/\text{m}^3$ )		
	Modeled	Background	Total
24-Hour	13.9	102	115.9
Annual	4.3	37	41.3

The modeling results demonstrate that operations at Lafarge will not contribute to an exceedence of the  $\text{PM}_{10}$  NAAQS.

cc: Gary Elliott, Lafarge  
Kaushik Deb, URS Corporation  
Mary Portanova, US EPA,  
Region V AQ File 2174B

**Technical Support Document  
For  
Air Emission Permit No. 12300391-101**

This technical support document (TSD) is intended for all parties interested in the permit and to meet the requirements that have been set forth by the federal and state regulations (40 CFR § 70.7(a)(5) and Minn. R. 7007.0850, subp. 1). The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the determination to issue the permit.

**1. General information**

**1.1 Applicant and stationary source location:**

**Table 1. Applicant and source address**

<b>Applicant/Address</b>	<b>Stationary source/Address</b> (SIC Code: 5032 - Brick, Stone, and Related Construction Materials)
BTHREE LLC dba Altus Materials Corp 2025 Centre Pointe Blvd Ste 300 Mendota Heights, Minnesota 55120-1259	Childs Road Terminal 2145 Childs Rd Saint Paul, MN 55106
Contact: Patrick Bergin Phone: 651-688-9292	

**1.2 Facility description**

Childs Road Terminal is a portland cement distribution terminal owned by BTHREE LLC d.b.a. Altus Materials Corp. The facility currently operates six silos with pollution control equipment used for storage and distribution of cementitious products. The material is currently delivered by truck and rail, stored in the silos, and distributed by truck.

The main sources of emissions are Particulate Matter (PM), and Particulate Matter less than 10 microns (PM10). The permit limits the emissions of the facility such that the facility is classified as a non-major source under federal New Source Review (NSR, 40 CFR Â§ 52.21) and federal Operating Program (40 CFR pt. 70). The facility is part of the SIP to reach attainment of PM10 Ambient Air Quality Standards in the Ramey County area. Permit No. 12300391- 002 was approved and included into the Minnesota State Implementation Plan (SIP) by the U.S. Environmental Protection Agency (EPA), which effectively replaced the SIP Administrative Order on September 11, 2007 (72 FR 51713).

**1.3 Description of the activities allowed by this permit action**

This permit action is Administrative Amendment and construction is not authorized. The amendment is for a change in ownership and facility name as allowed under Minn. R. 7007.1400, subp. 1(E). The MPCA received the Administrative Amendment Permit application on February 4, 2016 stating that Lafarge North America – Childs Road Terminal had been sold to BTHREE, LLC d.b.a. Altus Materials Corp and would be called Childs Road Terminal

**1.4 Description of notifications and applications included in this action**

**Table 2. Notifications and applications included in this action**

Date received	Application/notification type and description
02/04/2016	Administrative Amendment (IND20150001)

**1.5 Facility emissions:**

The Administrative Amendment does not change the allowable emissions for the facility nor does it change the facility classification under the various permitting programs. The following table shows the existing facility classification.

**Table 3. Facility classification**

Classification	Major	Synthetic minor/area	Minor/area
PSD		X	
Part 70 Permit Program		X	
Part 63 NESHAP			X

**1.6 Changes to permit**

As allowed under Minn. R. 7007.1400, subp. 1(G), the subject items IDs have been updated from the old Delta language to the current Tempo nomenclature. EU001 is now EQUI 1, FS001 is now FUGI 1, CE001 is now TREA 1, and SV001 is now STRU 1, and so on.

Also under subp. 1(G), we moved some requirements specific to control equipment from the emission units to the control equipment. This is to add additional clarity as to what the requirements are applicable to.

Under Minn. R. 7007.1400, subp. 1(J), we updated the SIP citation but did not change content of the permit conditions.

As permitted by Minn. R. 7007.1400, subp. 1(E), the owner and facility name have changed.

**2. Regulatory and/or statutory basis**

This permit action does not change any regulatory requirements

**3. Permit fee assessment**

This permit action includes an administrative amendment application that was subject to a permit application fee as required by Minn. R. 7002.0019. However, no additional points apply to the action.

**4. Conclusion**

Based on the information provided by Childs Road Terminal the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 12300391-101 and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff members on permit team: Michaela Leach (permit writer)  
Peggy Bartz (Peer Reviewer)  
Jennifer Carlson (Enforcement Reviewer)  
Maggie Wenger (SIP Reviewer)  
Beckie Olson (permit writing assistant)  
Laurie O'Brien (administrative support)

TEMPO360 Activities: Administrative Amendment (IND20150001)

**Attachment 1 – Subject item inventory**

## List of SIs

Agency Interest: Childs Road Terminal

Agency Interest ID: 2000

Activity: IND20150001 (Administrative Amendment)

Details for:

SI Category: None

SI Type: All

Agency Interest Name	Subject Item ID	Subject Item Designation	Subject Item Description	
Childs Road Terminal	AISI2000	Null	Null	■
	EQUI1	EU001	Pneumatic Conveyance to Material Storage Silo No. 1	■
	EQUI2	EU002	Pneumatic Conveyance to Material Storage Silo No. 2	■
	EQUI3	EU003	Material Storage Silo Nos. 3-6	■
	FUGI1	FS001	Truck Loading Operations	■
	FUGI2	FS002	Unpaved Road	■
	STRU1	SV001	Silo No. 1	■
	STRU2	SV002	Silo No. 2	■
	STRU3	SV003	Silo Nos. 3-6	■
	TFAC1	12300391	Lafarge North America-Childs Rd Termin..	■
	TREA1	CE001	Fabric Filter - Low Temperature, i.e., T<180 ..	■
	TREA2	CE002	Fabric Filter - Low Temperature, i.e., T<180 ..	■
	TREA3	CE003	Fabric Filter - Low Temperature, i.e., T<180 ..	■
	TREA4	CE004	Dust Suppression by Chemical Stabilizers or W..	■

PTE by subject item

Agency Interest: None

Agency Interest ID: 2000

Activity: None (Administrative Amendment)

Details for:

SI Category: All

SI Type: All

Subject Item Category	Subject Item Description	Subject Item ID	Subject Item Designation	Subject Item Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)
Equipment	Conveyor	EQUI1	EU001	Pneumatic Conveyance to Material Storage Silo No. 1	Particulate Matter	0.25	551.88
					PM < 2.5 micron	0.25	551.88
					PM < 10 micron	0.25	551.88
		EQUI2	EU002	Pneumatic Conveyance to Material Storage Silo No. 2	Particulate Matter	0.25	551.88
					PM < 2.5 micron	0.25	551.88
					PM < 10 micron	0.25	551.88
	Silo/Bin	EQUI3	EU003	Material Storage Silo Nos. 3-6	Particulate Matter	0.84	1,839.6
					PM < 2.5 micron	0.84	1,839.6
					PM < 10 micron	0.84	1,839.6
Fugitive	Material Handling/ Transfer/Storage	FUGI1	FS001	Truck Loading Operations	Particulate Matter	0.03	0.15
					PM < 2.5 micron	0.03	0.15
					PM < 10 micron	0.03	0.15
	Unpaved Roads	FUGI2	FS002	Unpaved Road	Particulate Matter	0.07	0.6
					PM < 2.5 micron	0.07	0.6
					PM < 10 micron	0.07	0.6

PTE by subject item

Agency Interest: None

Agency Interest ID: 2000

Activity: None (Administrative Amendment)

Details for:

SI Category: All

SI Type: All

Subject Item Category	Subject Item Description	Subject Item ID	Subject Item Designation	Subject Item Description	Pollutant	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Conveyor	EQUI1	EU001	Pneumatic Conveyance to Material Storage Silo No. 1	Particulate Matter	1.1	
					PM < 2.5 micron	1.1	
					PM < 10 micron	1.1	
		EQUI2	EU002	Pneumatic Conveyance to Material Storage Silo No. 2	Particulate Matter	1.1	
					PM < 2.5 micron	1.1	
					PM < 10 micron	1.1	
	Silo/Bin	EQUI3	EU003	Material Storage Silo Nos. 3-6	Particulate Matter	3.68	
					PM < 2.5 micron	3.68	
					PM < 10 micron	3.68	
Fugitive	Material Handling/ Transfer/Storage	FUGI1	FS001	Truck Loading Operations	Particulate Matter	0.31	
					PM < 2.5 micron	0.15	
					PM < 10 micron	0.15	
	Unpaved Roads	FUGI2	FS002	Unpaved Road	Particulate Matter	1.01	
					PM < 2.5 micron	0.3	
					PM < 10 micron	0.3	

SI - SI relationships

Agency Interest: None








Agency Interest ID: 2000

Activity: None (Administrative Amendment)

Details for:

SI Category: All

SI Type: All

Subject Item Category Description	Subject Item Type Description	Subject Item ID	Subject Item Designation	Subject Item Description	Relationship	Related Subject Item ID	% Flow	Related Subject Item Type Description	Start Date (Related Subject Item)	End Date (Related Subject Item)	
Equipment	Conveyor	EQUI1	EU001	Pneumatic Conveyance to Material Storage Silo No..	is controlled by	TREA1	100	018-Fabric Filter - Low Temp, T<180 Degrees F	11/17/2006	Null	
					sends to	STRU1	100	Stack/Vent	11/17/2006	Null	
		EQUI2	EU002	Pneumatic Conveyance to Material Storage Silo No..	is controlled by	TREA2	100	018-Fabric Filter - Low Temp, T<180 Degrees F	11/17/2006	Null	
					sends to	STRU2	100	Stack/Vent	11/17/2006	Null	
	Silo/Bin	EQUI3	EU003	Material Storage Silo Nos. 3-6	is controlled by	TREA3	100	018-Fabric Filter - Low Temp, T<180 Degrees F	11/17/2006	Null	
					sends to	STRU3	100	Stack/Vent	11/17/2006	Null	
Fugitive	Material Handling/Transfer/Storage	FUGI1	FS001	Truck Loading Operations	is controlled by	TREA3	100	018-Fabric Filter - Low Temp, T<180 Degrees F	11/17/2006	Null	
	Unpaved Roads	FUGI2	FS002	Unpaved Road	is controlled by	TREA4	100	062-Dust Suppress by Chem Stabilizer/Wetting..	11/17/2006	Null	



Emission Units 1

Agency Interest: None




Agency Interest ID: 2000

Activity: None (Administrative Amendment)

Details for:

SI Category: None

SI Type: Conveyor & Silo/Bin

Subject Item Type	Subject Item ID	Subject Item Designation	Subject Item Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units (numerator)	Max Design Capacity Units (denominator)	Material	Construction Start Date	Operation Start Date	Modification Date	
Conveyor	EQUI1	EU001	Pneumatic Conveyance to Material Storage Silo No. 1	Columbian Steel Tanks	NA	960	tons	each	Material	1/1/1969	1/1/1969	Null	
	EQUI2	EU002	Pneumatic Conveyance to Material Storage Silo No. 2	Columbian Steel Tanks	NA	960	tons	each	Material	1/1/1969	1/1/1969	Null	
Silo/Bin	EQUI3	EU003	Material Storage Silo Nos. 3-6	Columbian Steel Tanks	NA	3620	tons	each	Material	1/1/1969	1/1/1969	Null	

## Fugitive Sources

Agency Interest: None



Agency Interest ID: 2000

Activity: None (Administrative Amendment)

Details for:

SI Category: Fugitive

SI Type: Material Handling/Transfer/Storage & Unpaved Roads

Subject Item Type Description	Subject Item ID	Subject Item Designation	Subject Item Description	Install Year	Pollutants Emitted	
Material Handling/Transfer/Storage	FUGI1	FS001	Truck Loading Operations	2006	PM < 10 micron	
Unpaved Roads	FUGI2	FS002	Unpaved Road	2006	PM < 10 micron	

Stack/Vent, General

Agency Interest: None




Agency Interest ID: 2000

Activity: None (Administrative Amendment)

Details for:

SI Category: Structure

SI Type: Stack/Vent

Subject Item Type	Subject Item ID	Subject Item Designation	Subject Item Description	Stack Height (feet)	Stack Diameter (feet)	Stack Length (feet)	Stack Width (feet)	Stack Flow Rate (cubic ft/min)	Discharge Temperature (°F)	Flow Rate/Temp Information Source	Discharge Direction	
Stack/Vent	STRU1	SV001	Silo No. 1	84	1	Null	Null	1500	70	Manufacturer	Upwards with no cap on stack/vent	
	STRU2	SV002	Silo No. 2	84	1	Null	Null	1500	70	Manufacturer	Upwards with no cap on stack/vent	
	STRU3	SV003	Silo Nos. 3-6	102	1.01	Null	Null	5000	70	Manufacturer	Upwards with no cap on stack/vent	

Other Control Equipment

Agency Interest: None




Agency Interest ID: 2000

Activity: None (Administrative Amendment)

Details for:

SI Category: Treatment

SI Type: 062-Dust Suppress by Chem Stabilizer/Wetting Agent

Subject Item Type Description	Subject Item ID	Subject Item Designation	Subject Item Description	Manufacturer	Model	Installation Start Date	Pollutant Controlled	Capture Efficiency (%)	Destruction Collect Efficiency (%)	Subject to CAM?	Large or Other PSEU?	Efficiency Basis	Other operating parameters?	Other operating parameters description	
062-Dust Suppress by Chem Stabilizer/Wetting Agent	TREA4	CE004	Dust Suppression by Chemical Stabilizers or Wetting Agents	NA	NA	1/1/1969	Particulate Matter	100	50	No	Null	Other	Yes	1.5 pounds per square yard of cal..	
							PM < 2.5 micron	100	50	No	Null	Other	Yes	1.5 pounds per square yard of cal..	
							PM < 10 micron	100	50	No	Null	Other	Yes	1.5 pounds per square yard of cal..	

Fabric Filters, General

Agency Interest: None

Agency Interest ID: 2000

Activity: None (Administrative Amendment)

Details for:

SI Category: Treatment

SI Type: 018-Fabric Filter - Low Temp, T<180 Degrees F

Subject Item Type Description	Subject Item ID	Subject Item Designation	Subject Item Description	Manufacturer	Model	Installation Start Date	Pollutant Controlled	Capture Efficiency (%)	Destruction Collect Efficiency (%)	Subject to CAM?	Large or Other PSEU?	Efficiency Basis	Fabric Filter Minimum Pressure Drop (in. of ..	Fabric Filter Maximum Pressure Drop (in. of ..	Bag leak detector in use?	
018-Fabric Filter - Low Temp, T<180 Degrees F	TREA1	CE001	Fabric Filter - Low Temperature, i.e., T<180 Degrees F	Scientific Dust Collectors	SPJ-18	1/1/1969	Particulate Matter	100	99	No	Null	Other	0.5	6	No	<input type="checkbox"/>
							PM < 10 micron	100	99	No	Null	Other	0.5	6	No	<input type="checkbox"/>
	TREA2	CE002	Fabric Filter - Low Temperature, i.e., T<180 Degrees F	Scientific Dust Collectors	SPJ-18	1/1/1969	Particulate Matter	100	99	No	Null	Other	0.5	6	No	<input type="checkbox"/>
							PM < 10 micron	100	99	No	Null	Other	0.5	6	No	<input type="checkbox"/>
	TREA3	CE003	Fabric Filter - Low Temperature, i.e., T<180 Degrees F	Mikro-Pulsaire	81S-10-..	1/1/1969	Particulate Matter	100	99	No	Null	Other	2	6	No	<input type="checkbox"/>
							PM < 10 micron	100	99	No	Null	Other	2	6	No	<input type="checkbox"/>