

**AIR EMISSION PERMIT NO. 03700115-002**

**IS ISSUED TO**

Kraemer Mining & Materials Inc.

**KRAEMER MINING & MATERIALS - BURNSVILLE**

1020 Cliff Road West – Suite 2  
Burnsville, Dakota County, MN 55337

The emission units, control equipment and emission stacks at the stationary source authorized in this permit are as described in the following permit applications.

<b>Permit Type</b>	<b>Application Date</b>	<b>Issue Date</b>	<b>Action</b>
Total Facility Operating Permit	June 15, 1996	March 7, 2006	001
Administrative Amendment	June 29, 2006	See Below	002

This permit amendment supersedes Air Emission Permit No. 03700115-001 and authorizes the Permittee to operate the stationary source at the address listed above unless otherwise noted in Table A. 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. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

**Permit Type:** Federal; Pt 70/Limits to Avoid NSR  
**Issue Date:** March 7, 2006  
**Expiration:** March 7, 2011  
Title I Conditions do not expire.

**Administrative Amendment**  
**Issue Date:** November 4, 2008

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Don Smith, P.E., Manager  
Air Quality Permits Section  
Industrial Division

for Brad Moore  
Commissioner  
Minnesota Pollution Control Agency

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**NOTICE TO THE PERMITTEE:**

Your stationary source may be subject to the requirements of the Minnesota Pollution Control Agency's (MPCA) solid waste, hazardous waste, and water quality programs. If you wish to obtain information on these programs, including information on obtaining any required permits, please contact the MPCA general information number at:

Metro Area	651-296-6300
Outside Metro Area	1-800-657-3864
TTY	651-282-5332

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

**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.

**FACILITY DESCRIPTION:**

The facility mines and processes crushed limestone and sand for use in various construction applications. The facility processes include drilling, blasting, crushing, screening, and transport of crushed limestone and sand. Emissions are primarily dust from the processing and hauling of the material. Pollution control measures include monitoring of material moisture content and the addition of water sprays to reduce the occurrence of dust.

**ADMINISTRATIVE AMENDMENT DESCRIPTION:**

This permit action is an administrative amendment for a change in name and ownership at the facility. The name has been changed from Edward Kraemer & Sons, Inc. – Burnsville Quarry to Kraemer Mining & Materials – Burnsville. The owner name has been changed from Edward Kraemer & Sons Inc to Kraemer Mining & Materials Inc.

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-1**

11/04/08

Facility Name: Kraemer Mining &amp; Materials - Burnsville

Permit Number: 03700115 - 002

**Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.**

**Subject Item:****Total Facility**

<b>What to do</b>	<b>Why to do it</b>
<b>SOURCE-SPECIFIC REQUIREMENTS</b>	hdr
Material Usage: less than or equal to 3750000 tons/year using 12-month Rolling Sum . This sum includes material processed on site by equipment owned and operated by third parties.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000;
Recordkeeping - Throughput: Daily record the quantity of material processed at the site and by the 15th of the following month calculate and record the 12-month rolling sum. Keep records on site.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
Feed Material Moisture Content: greater than or equal to 1.5 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000;
Demonstrate feed material moisture content by either 1. or 2. below: 1. Test moisture content of each different feed material source (sampled at an area representative of the feed source and physically capable of being sampled), as follows: a. Use ASTM method numbers D 2216-92 or D 4643-93 (or equivalent). b. Keep records of each moisture content test summarizing the method used, results, date, time, and initials of person performing test. c. Test weekly, when operating, unless three consecutive tests at the stationary source location show moisture contents of greater than or equal to 1.5%, then tests are no longer required until the source of the feed material changes.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
d. When testing indicates that feed material moisture content is less than 1.5%, in situations where it is infeasible to sample and test, or where the Permittee elects not to sample and test, the Permittee must operate a moisture addition device at or immediately prior to the initial crusher(s) or initial screen(s) where unprocessed feed material is being fed to achieve a moisture content greater than or equal to 1.5%. Moisture addition during operation shall continue until subsequent moisture content testing demonstrates that feed material moisture content is greater than or equal to 1.5%. Daily, when operating, either:	(continued) Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
i. Keep records of the date, water flow rate, material throughput rate, initials of the person making the record, and the time the record was made; or ii. Conduct moisture content testing daily on the feed material after water application following a. and b. above, and if results show moisture content is less than 1.5%, increase water addition to insure moisture is 1.5% or greater and re-test to verify. 2. Keep records indicating that feed material is being removed from below the water table - or from below the surface of a waterway (e.g., creek, river, lake) - or that the feed material is recycled asphalt pavement. Records shall include a description of the source (if recycled asphalt pavement, so indicate), the corresponding dates, and the initials of the person making the record.	(continued) Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
Non-Process Dust Control: All reasonable measures shall be taken to prevent avoidable amounts of particulate matter from becoming airborne. In a practical manner this refers to preventing avoidable visible dust emissions beyond the lot line surrounding the stationary source. Control of non-process dust emissions can be achieved through such measures as applying water or commercially available dust suppressant to stockpiles, unpaved roads and handling areas.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
In addition, the following requirements apply to the Permittee:	
1. Record date and time of action and initials of person making the record. 2. Record amount of water or dust suppressant applied. 3. If a commercially available dust suppressant is used, it shall be applied in accordance with the manufacturer's guidelines. The Permittee must keep a copy of these manufacturer's guidelines. 4. Record the location (e.g., site sketch) of water or dust suppressant application. 5. Install a rain gauge at the site and record the precipitation in the previous 24 hours for each day of operation at the site. 6. Make and record basic weather observations according to the MPCA Weather Summary Criteria that best characterize each operating day. 7. Unpaved roads at the site shall be posted with speed limit signs indicating a maximum speed of 10 miles per hour. 8. Equipment to apply water or dust suppressant shall always be available at the site or on call for use at the site within a given operating day.	(continued) Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-2**

11/04/08

Facility Name: Kraemer Mining &amp; Materials - Burnsville

Permit Number: 03700115 - 002

Labeling Requirements: Permanently affix the manufacturer's serial number (or otherwise unique identifying number) to each piece of crushing, screening, transfer operation, and stationary internal combustion engine equipment for tracking purposes within 60 days of permit issuance. The number shall be permanently affixed and maintained so that it is readable and visible at all times from a safe distance at each stationary source. This number shall correspond to the number contained in records regarding the piece of equipment.	Minn. R. 7007.0800, subp. 2
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
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.	Minn. R. 7007.0800, subps. 2 & 16(J)
Operation and Maintenance Plan: Retain at the stationary source an O&M plan for all air pollution control equipment. At a minimum, the O&M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for 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, subps. 14 & 16(J)
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
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
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
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)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
PERFORMANCE TESTING	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A and/or B.	Minn. R. ch. 7017
Performance Test Notifications and Submittals:  Performance Tests are due as outlined in Table A of the permit.  Performance Test Notification (written): due 30 days before each Performance Test Performance Test 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 Performance Test Report - CD Copy: due 105 days after each Performance Test  The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2018; Minn. R. 7017.2030, subps. 1-4; Minn. R. 7017.2035, subps. 1-2
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 incorporating the change.	Minn. R. 7017.2025
MONITORING REQUIREMENTS	hdr
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment.	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: 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)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-3**

11/04/08

Facility Name: Kraemer Mining &amp; Materials - Burnsville

Permit Number: 03700115 - 002

RECORDKEEPING	hdr
Recordkeeping: Retain all records at the stationary source 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)
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)
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. These records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the 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
REPORTING/SUBMITTALS	hdr
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 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.  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
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.  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
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
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: 1. The cause of the deviation; 2. The exact dates of the period of the deviation, if the deviation has been corrected; 3. Whether or not the deviation has been corrected; 4. The anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150-7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 - 7007.1500
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).	Minn. R. 7007.1400, subp. 1(H)
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance. To be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 - 7019.3100
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 - 7002.0095

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Kraemer Mining & Materials - Burnsville  
Permit Number: 03700115 - 002

Subject Item: GP 001 NSPS Limits (Crushers)

Associated Items: EU 005 Crushing 1  
EU 007 Crushing 2 - Cone  
EU 008 Crushing 3 - Cone Crusher  
EU 021 Crushing - Small Plant

What to do	Why to do it
Opacity: less than or equal to 15 percent opacity	40 CFR Section 60.672(c) and Minn. R. 7011.3350

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Kraemer Mining & Materials - Burnsville  
Permit Number: 03700115 - 002

Subject Item: GP 002 NSPS Limits (Other Equipment)

Associated Items: EU 004 Rip Rap Screening  
EU 006 Burma Screening  
EU 009 Screening 3 - West  
EU 010 Screening 3 - East  
EU 017 Screening - PEP

What to do	Why to do it
Opacity: less than or equal to 10 percent opacity	40 CFR Section 60.672(b) and Minn. R. 7011.3350



**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-6**

11/04/08

Facility Name: Kraemer Mining &amp; Materials - Burnsville

Permit Number: 03700115 - 002

**Subject Item:** GP 003 NSPS Limits (Wet Processing)**Associated Items:** EU 013 Screening 4 - North

EU 014 Screening 4 - South

EU 020 Wash Screens - Small Plant

What to do	Why to do it
Visible emissions: No visible emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.	40 CFR Section 60.672(h)(1) and Minn. R. 7011.3350

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-7**

11/04/08

Facility Name: Kraemer Mining &amp; Materials - Burnsville

Permit Number: 03700115 - 002

**Subject Item:** EU 001 Air Compressor - Gasoline**Associated Items:** SV 001 Gasoline Air Compressor

What to do	Why to do it
Allowed fuels: Gasoline. No other fuels shall be used.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity once operating temperature has been attained.	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-8**

11/04/08

Facility Name: Kraemer Mining &amp; Materials - Burnsville

Permit Number: 03700115 - 002

**Subject Item:** EU 003 Diesel Generator**Associated Items:** SV 002 Diesel Generator

What to do	Why to do it
Allowed fuels. Diesel fuel. No other fuels shall be used.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Fuel Usage: less than or equal to 366500 gallons/year using 12-month Rolling Sum	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Recordkeeping - Fuel Use: By the 15th of the following month, record the quantity of fuel consumed in the engine and calculate the 12-month Rolling Sum. Keep records on site.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
Opacity: less than or equal to 20 percent opacity once operating temperature has been attained.	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-9**

11/04/08

Facility Name: Kraemer Mining &amp; Materials - Burnsville

Permit Number: 03700115 - 002

**Subject Item:** EU 019 Diesel Generator on Mobile Jaw Crusher**Associated Items:** SV 003 Diesel Generator

What to do	Why to do it
Allowed fuels. Diesel fuel. No other fuels shall be used.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Fuel Usage: less than or equal to 2000 gallons/year using 12-month Rolling Sum	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Recordkeeping - Fuel Use: By the 15th of the following month, record the quantity of fuel consumed in the engine and calculate the 12-month Rolling Sum. Keep records on site.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
Opacity: less than or equal to 20 percent opacity once operating temperature has been attained.	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2

**TABLE B: SUBMITTALS****B-1** 11/04/08

Facility Name: Kraemer Mining & Materials - Burnsville  
Permit Number: 03700115 - 002

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

- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

Table B lists most of the submittals required by this permit. Please note that some submittal requirements may appear in Table A or, if applicable, within a compliance schedule located in Table C. Table B is divided into two sections in order to separately list one-time only and recurrent submittal requirements.

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by parts 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 to be submitted to the U.S. EPA regional office to:

Mr. George Czerniak  
Air and Radiation Branch  
EPA Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604

Send any application for a permit or permit amendment to:

AQ Permit Technical Advisor  
Industrial Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

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

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

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

Facility Name: Kraemer Mining & Materials - Burnsville  
Permit Number: 03700115 - 002

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility

**TABLE B: RECURRENT SUBMITTALS****B-3** 11/04/08

Facility Name: Kraemer Mining &amp; Materials - Burnsville

Permit Number: 03700115 - 002

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 03/07/2006. 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. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 03/07/2006 (for the previous calendar year). The Permittee shall submit this on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

## **APPENDIX A**

### **Weather Summary Criteria**

Facility Name: Kraemer Mining & Materials – Burnsville

Permit Number: 03700115-002

### **WEATHER SUMMARY CRITERIA**

#### **Sky Conditions**

CLR	<1/10 cloud coverage
SCT (Ptly Cldy)	1/10-5/10 cloud coverage (opaque)
BKN (Mstly Cldy)	6/10-9/10 cloud coverage (opaque)
OVC (Cloudy)	10/10 cloud coverage (opaque)
THN OVC	Sky is completely covered with high thin clouds and <5/10 cloud coverage is opaque

Note: The cloud coverage is a cumulative total of all cloud layers.

#### **Weather Conditions**

Fog	May also be associated with drizzle and may obstruct sky
Drizzle	Small particles of rain many times associated with fog
Lt Rain	Continuous falling at a light rate (good horizontal visibility)
Mod Rain	Continuous falling at a mod. rate (horiz. visibility decreased)
Hvy. Rain	Continuous falling at heavy rate; in sheets (horizontal visibility low)
T-Strm	Thunderstorm -- thunder, lightning, and usually mod. to hvy. rain
Hail	Associated with thunderstorms
Frz Rain	Rain that freezes on contact of cold objects; glazing
Sleet	Mixture of rain and ice pellets
Ice Pellets	Clear/mostly translucent pellets of ice -- not easily broken/crushed
Snw Grns/Snw Pellets	Hard/crunchy opaque (white) pellets of snow -- easily crushed
Lt Snow	Falling at a light rate; flurries (good horizontal visibility)
Mod Snow	Falling at a moderate rate (horizontal visibility decreased)
Hvy Snow	Falling at a heavy rate (poor horizontal visibility)

#### **Wind Scale**

0-10 MPH	Light Breeze	Leaves rustle
10-20 MPH	Light Wind	Small tree branches move; wind extends light flag
20-30 MPH	Mod. Wind	Large branches in motion; umbrella used with difficulty
30-40 MPH	Mod. Gale	Whole trees in motion; difficulty walking against wind
40-50 MPH	Strong Gale	Twigs break off of trees

#### **Temperature**

Approximate using a range of 5 degrees Fahrenheit if the actual temperature is not known.



**TECHNICAL SUPPORT DOCUMENT**  
**For**  
**AIR EMISSION PERMIT NO. 03700115-002**

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**

Owner/Operator Address	Stationary Source/Address (SIC Code: 1422)
Kraemer Mining & Materials Inc 1020 Cliff Road West, Burnsville, MN 55337	Kraemer Mining & Materials – Burnsville 1020 Cliff Road West, Burnsville, Dakota County
Contact: Sara Welna	Phone: 952-890-3611

**1.2 Description of the Facility**

The Edward Kraemer & Sons, Inc. – Burnsville Quarry mines and processes crushed limestone and sand for use in various construction applications. The facility processes include drilling, blasting, crushing, screening, and transport of crushed limestone and sand. Emissions are primarily dust from the processing and hauling of the material. Pollution control measures include monitoring of material moisture content and the addition of water sprays to reduce the occurrence of dust.

**1.3 Description of the Activities Allowed by this Permit Action**

This permit action is an administrative amendment for a change in name and ownership at the facility. The name has been changed from Edward Kraemer & Sons, Inc. – Burnsville Quarry to Kraemer Mining & Materials – Burnsville. The owner name has been changed from Edward Kraemer & Sons Inc to Kraemer Mining & Materials Inc.

The permit was updated to include most recent standard requirements, and many citations for permit conditions were either corrected or updated as allowed by Minn. R. 7007.1400, subp. 1(J). One time dispersion modeling was submitted; the corresponding one time requirements were removed. EU 013 and 014 are wet processing operations and were moved from GP 002 to GP 003, and EU 014 industrial process equipment regulations were removed since it is subject to the NSPS. EU 011 and 012 have been removed from the facility.

**2. Conclusion**

Based on the information provided by Kraemer Mining & Materials, the MPCA has reasonable assurance that the operation of the emission facility, as described in the Air Emission Permit No. 03700115-002 and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team: Trevor Shearen (permit writer/engineer)  
Cary Hernandez (enforcement)  
Kelsey Suddard (peer reviewer)

AQ File No. 2131B; DQ 1094