State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
GEAUGA COUNTY

Street Address:
122 S. Front Street
Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329
Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 02-17391

DATE: 1/30/2003

Fairmount Minerals Ltd
Ralph Randles
11830 Ravenna Rd
Chardon, OH 44024

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,
Michael W. Ahern
Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA **NEDO**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install	**Issue Date: 1/30/2003**
Terms and Conditions	**Effective Date: 1/30/2003**

FINAL PERMIT TO INSTALL 02-17391

Application Number:	02-17391
APS Premise Number:	0228000079
Permit Fee:	**$800**
Name of Facility:	Fairmount Minerals Ltd
Person to Contact:	Ralph Randles
Address:	11830 Ravenna Rd Chardon, OH 44024

Location of proposed air contaminant source(s) [emissions unit(s)]:
11830 Ravenna Rd
Chardon, **Ohio**

Description of proposed emissions unit(s):
Cedar Rapids portable jaw crusher and conveyor.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons Per Year
PE	7.36

Emissions Unit ID: **P010**

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P010 - Cedar Rapids Crusher for Primary Crushing of Stone, Front-End Loader in Quarry	OAC rule 3745-31-05 (A)(3)	Particulate emissions from this emissions unit shall not exceed 0.56 pound per hour and 2.45 tons per year.
	OAC rule 3745-17-07 (B)(1)	The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 (New Source Performance Standards), subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.
	OAC rule 3745-17-08	See section B.1 of these terms and conditions.
	OAC rule 3745-17-11	The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).
	40 CFR Part 60, subpart OOO NSPS Requirements	See section A.2.a of these terms and conditions.

2. Additional Terms and Conditions

2.a On and after the sixtieth day after achieving the maximum production rate at which the facility will be operated, but not later than 180 days after initial startup, the permittee shall not cause to be discharged into the atmosphere from this emissions unit, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent (15%) opacity.

B. Operational Restrictions

1. The permittee shall operate this emissions unit in such a manner, at minimum, but not be limited to, keep sufficient moisture on crushed stone, that is appropriate to minimize or eliminate visible particulate emissions of fugitive dust.

C. Monitoring and/or Recordkeeping Requirements

None

D. Reporting Requirements

1. Pursuant to the NSPS requirements, the permittee hereby advised of the requirement to report the following at the appropriate times:

   a. Construction date (no late than 30 days after such date);

   b. Anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

   c. Actual start-up date (within 15 days after such date); and

   d. date of performance testing (If required, at least 30 days prior to testing).

   Reports are to be sent to:

   Ohio Environmental Protection Agency
   DAPC - Permit Management Unit
   P.O. Box 163669
   Columbus, Ohio 43216-3669

   and Ohio EPA Northeast District Office - DAPC
   2110 East Aurora Road
   Twinsburg, Ohio 44087

2. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the NSPS requirements set forth in section A.2.a of these terms and conditions, including reports of opacity observations made using Method 9 to demonstrate compliance with the opacity limitation in section A.2.a of these terms and conditions.

E. Testing Requirements

1. Compliance with the emission limitation in section A.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:
   0.56 pound per hour of particulate emissions

   Applicable Compliance Method:
   Compliance shall be determined based upon the following:

   (PE)H = (MHPR)(EFp)

   where,
   (PE)H = Hourly particulate emission rate, in pounds per hour;
   MHPR = Maximum Hourly Production Rate = 800 tons per hour;
   EFp = 7.0 X 10^{-4} lb/ton of stone processed, the particulate emission factor from AP - 42, January 1995, Section 11.17.2 Crushed Stone Processing, Table 11.19.2.2, Emission Factors for Crushed Stone Processing.

   b. Emission Limitation:
   2.45 tons per year of particulate emissions

   Applicable Compliance Method:
   The tons per year limitation was developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

2. In determining compliance with the fugitive particulate emission standards in NSPS requirements, the permittee shall use Method 9 and the procedures in 40 CFR Part 60 section 60.11, with the following additions:

   a. The minimum distance between the observer and the emission source shall be 15 feet.

   b. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g.; road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

c. For permittee using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

3. The permit shall conduct, or have conducted, performance testing on this emissions unit in accordance with procedures approved by the Agency. Two copies of the written report describing the test procedures followed and the results of such tests shall be submitted and signed by the person responsible for the test. The Director, or an Ohio EPA representative, shall be allowed to witness the test, examine testing equipment, and require the acquisition or submission of data and information necessary to assure that the source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

   a. A completed Intent to Test form shall be submitted to the appropriate Ohio EPA District Office or Local Air Pollution Control Agency where the original permit application was filed. This notice shall be made 30 days in advance and shall specify the source operating parameters, the proposed test procedures, and the time, date, place and person(s) conducting such tests.

   b. Two copies of the test results shall be submitted within 30 days after the completion of the performance test.

   c. Tests shall be performed for the following source and pollutants:

Source	Pollutants
P010	Particulate Matter

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P011 - Quarry Conveyor for approximate 2,680 feet	OAC rule 3745-31-05 (A)(3)	Particulate emissions from this emissions unit shall not exceed 1.12 pound per hour and 4.91 tons per year.
	OAC rule 3745-17-07 (B)(1)	The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 (New Source Performance Standards), subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.
	OAC rule 3745-17-08	See section B.1 of this terms and conditions.
	OAC rule 3745-17-11	The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).
	40 CFR Part 60 subpart OOO NSPS Requirements	See section A.2.a of these terms and conditions.

2. Additional Terms and Conditions

2.a On and after the sixtieth day after achieving the maximum production rate at which the facility will be operated, but not later than 180 days after initial startup, the permittee shall not cause to be discharged into the atmosphere from any transfer point on this emissions unit any fugitive emissions which exhibit greater than 10 percent (10%) opacity.

B. Operational Restrictions

1. The permittee shall operate this emissions unit in such a manner, at minimum, but not be limited to, keep sufficient moisture on crushed stone, that is appropriate to minimize or eliminate visible particulate emissions of fugitive dust.

C. Monitoring and/or Recordkeeping Requirements

None

D. Reporting Requirements

1. Pursuant to the NSPS requirements, the permittee hereby advised of the requirement to report the following at the appropriate times:

   a. Construction date (no late than 30 days after such date);

   b. Anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

   c. Actual start-up date (within 15 days after such date); and

   d. date of performance testing (If required, at least 30 days prior to testing).

   Reports are to be sent to:

   Ohio Environmental Protection Agency
   DAPC - Permit Management Unit
   P.O. Box 163669
   Columbus, Ohio 43216-3669

   and Ohio EPA Northeast District Office - DAPC
   2110 East Aurora Road
   Twinsburg, Ohio 44087

2. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the NSPS requirements set forth in section A.2.a of these terms and conditions, including reports of opacity observations made using Method 9 to demonstrate compliance with the opacity limitation in section A.2.a of these terms and conditions.

E. Testing Requirements

1. Compliance with the emission limitation in section A.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:
   1.12 pound per hour of particulate emissions

   Applicable Compliance Method:
   Compliance shall be determined based upon the following:

   (PE)H = (MHPR)(EFp)

   where,
   (PE)H = Hourly particulate emission rate, in pounds per hour;
   MHPR = Maximum Hourly Production Rate = 800 tons per hour;
   EFp = 0.0014 lb/ton of stone processed, the particulate emission factor from AP - 42, January 1995, Section 11.17.2 Crushed Stone Processing, Table 11.19.2.2, Emission Factors for Crushed Stone Processing. Also, an assumption of all particulate emissions are PM_{10} were made.

   b. Emission Limitation:
   4.91 tons per year of particulate emissions

   Applicable Compliance Method:
   The tons per year limitation was developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

2. In determining compliance with the fugitive particulate emission standards in NSPS requirements, the permittee shall use Method 9 and the procedures in 40 CFR Part 60 section 60.11, with the following additions:

a. The minimum distance between the observer and the emission source shall be 15 feet.

b. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g.; road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

c. For permittee using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

3. The permit shall conduct, or have conducted, performance testing on this emissions unit in accordance with procedures approved by the Agency. Two copies of the written report describing the test procedures followed and the results of such tests shall be submitted and signed by the person responsible for the test. The Director, or an Ohio EPA representative, shall be allowed to witness the test, examine testing equipment, and require the acquisition or submission of data and information necessary to assure that the source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

a. A completed Intent to Test form shall be submitted to the appropriate Ohio EPA District Office or Local Air Pollution Control Agency where the original permit application was filed. This notice shall be made 30 days in advance and shall specify the source operating parameters, the proposed test procedures, and the time, date, place and person(s) conducting such tests.

b. Two copies of the test results shall be submitted within 30 days after the completion of the performance test.

c. Tests shall be performed for the following source and pollutants:

Source	**Pollutants**
P011	Particulate Matter

F. Miscellaneous Requirements

None