

AN ORDER OF THE CLEAN ENVIRONMENT COMMISSION  
UNDER THE CLEAN ENVIRONMENT ACT

RE: THE CLEAN ENVIRONMENT COMMISSION and THE CITY OF WINNIPEG Applicant;

WHEREAS pursuant to the provisions of The Clean Environment Act, the City of Winnipeg filed an application with the Department of Mines, Natural Resources and Environment in connection with the operation of a limestone aggregate quarry with associated noise and dust emissions to the atmosphere, the said quarry being located in Sections 11, 12 and 14 of Township 13, Range 2 E.P.M. in the Rural Municipality of Rockwood;

AND WHEREAS in the absence of limits being prescribed by a Regulation under The Clean Environment Act, the said application was referred to The Clean Environment Commission for the prescribing of limits;

AND WHEREAS representations were made to the Commission by persons who are or who are likely to be affected by an Order of the Commission prescribing limits on the said operation;

AND WHEREAS the Commission held a public hearing in Stonewall, Manitoba on the 25th and 26th days of June, 1979 for the purpose of hearing evidence and receiving representations concerning the said operation;

AND WHEREAS evidence received at the hearing indicated to the Commission that the principal public concerns relate to noise arising from blasting at the said operation;

AND WHEREAS the Commission considered the said application on the 20th day of August, 1979;

IT IS HEREBY ORDERED THAT

- 1. the Applicant shall not, with respect to continuous or intermittent operations, exclusive of blasting, cause or permit the emission of sound from the said operation which, when measured at any point beyond the property line of the said operation and within 15 meters of a building maintained as a dwelling, results in an hourly equivalent sound level\* in excess of:
  - (a) 60 dBA during the daytime hours of 7:00 a.m. to 10:00 p.m. local time; and
  - (b) 50 dBA during the night-time hours of 10:00 p.m. to 7:00 a.m., local time.


*Assigned to  
Air Pollution  
Control  
Oct. 19, 1979.*

2. Subject to Clause 3 of this Order, the Applicant shall not, with respect to blasting at the site of the said operation, cause or permit the emission of:
  - (a) sound emissions which exceed the following limits when measured beyond the property line of the said operation:
    - (i) within 15 meters of a building maintained as a dwelling, 130 decibels linear peak sound pressure level\*\*;
    - (ii) within 15 meters of any building maintained for use other than as a dwelling, 150 decibels linear peak sound pressure level\*\*;
    - (iii) where any person other than an employee of the operation is exposed, 140 decibels linear peak sound pressure level\*\*;
  - (b) soil-borne vibrations which exceed the following limits when measured beyond the property line of the said operation and inside a building below grade or less than one meter above grade:
    - (i) for any building maintained as a dwelling, 12 millimeters per second peak particle velocity\*\*\*, in any one of three mutually perpendicular directions (vertical, radial and transverse to the source);
    - (ii) for any building maintained for use other than as a dwelling, 50 millimeters per second peak particle velocity\*\*\*, in any one of three mutually perpendicular directions (vertical, radial and transverse to the source).
3. The Applicant shall not, with respect to blasting at the site of the said operation, cause or permit the emission of sound or soil-borne vibrations measurable beyond the property line of the said operation at any time between 4:00 p.m. of any day and 10:00 a.m. of the following day (local time) or at any time on Sunday, except in emergency conditions.
4. The Applicant shall not cause or permit the emission of solid particulate matter from any point or process of the said operation, except blasting, in excess of 0.23 grams per standard cubic meter calculated at 25 degrees Celsius and 760 millimeters of mercury.

5. The Applicant shall not cause or permit visible particulate emissions from any point of emission of the said operation, except blasting, that exhibit an opacity greater than or equal to:
  - (a) 40 percent at any time; and
  - (b) 20 percent for a period exceeding four minutes in any one hour.
  
6. The Applicant shall limit the wind entrainment of particulate matter from any source of the said operation, except blasting, to the extent that the particulate matter does not exhibit an opacity in excess of 5 percent beyond the property line of the said operation.

Order No. 853

Dated at the City of Winnipeg  
this 10th day of October, 1979.

  
Chairman,  
The Clean Environment Commission

- \* "hourly equivalent sound level" means a sound level measured in terms of the equivalent continuous sound level averaged over a one hour period (60 minutes), using a sound level monitoring device which equals or surpasses the requirements of Canadian Standards Association Standard Z 107.1 - 1973 (or the equivalent) for Type 2 sound level meters, operated on the "A-weighting network" and "slow" meter response.
  
- \*\* "linear peak sound pressure level" means the maximum absolute sound pressure as measured using a sound level monitoring device which equals or surpasses the requirements of International Electrotechnical Commission (I.E.C.) Publications 179 (1973) "Precision sound level meters", and 179A(1973) "Additional characteristics for the measurement of impulsive sounds", including section 4.5.1, using "linear" weighting network and "peak hold" meter response, or the equivalent.
  
- \*\*\* "peak particle velocity" means the maximum instantaneous velocity experienced by the particles of a medium, when set into transient vibratory motion, and is the greatest velocity of any of the three mutually perpendicular directions (vertical, radial and transverse to the source).

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