

LANE REGIONAL AIR POLLUTION AUTHORITY
AIR CONTAMINANT DISCHARGE PERMIT

REVIEW REPORT

Morse Bros.,

Permit No. 205173

PERMITTING

Permitting Action

1. The permit is a new for a new portable rock crushing operation in Lane County.

Other Permits

2. The facility has an ACDP with the Oregon Department of Environmental Quality (DEQ) for the operation of the portable rock crusher.

Attainment Status

3. The source is located in an attainment area for all pollutants except PM₁₀ (particulate matter less than 10 microns in size). The Eugene/Springfield Air Quality Management Area is a non-attainment area for PM₁₀.

SOURCE DESCRIPTION

Overview

4. The source operates a portable rock crusher at various locations in Lane County. The source has no control devices. Total annual hours of operation in Lane County for the facility is limited to 625 hours per calendar year in the permit. Baseline Emissions were not set in the permit because the source is well below the Significant Emissions Rates as listed in Title 38 of LRAPA's Rules and Regulations.

Process and Control Devices

5. Existing air contaminant sources at the facility consist of the following:
 - a. One (1) jaw crusher with associated screens and belts
 - b. One (1) 11 gal/hr diesel-fired engine
 - c. Fugitives from vehicular traffic and storage piles - not quantified.

EMISSIONS

6. The pollutant(s) of concern associated with this source type are PM, PM₁₀, SO₂, NO_x, CO and VOCs. Emissions of each pollutant are estimated and shown in the table below. Rock crusher emissions are based on a maximum hourly rate of 350 tons/hr of crushed rock and 625 hours of operation per year using DEQ emission factors. Fuel usage emissions for the engine are based on a maximum diesel usage of 11 gallons/hr and 625 hours per year of operation using AP-42 factors (except PM which uses a DEQ emission factor). Emission calculation details are as follows:

Device/Process	Pollutant	Annual Throughput	Emission Factor	Emissions tons/yr
Crusher	PM	219,000 tons	0.041 lb/ton	4.5
Crusher	PM ₁₀	219,000 tons	0.02 lb/ton	2.2
Fuel Usage	PM	962.5 MM BTU/yr	0.62	0.3
Fuel Usage	PM ₁₀	962.5 MM BTU/yr	0.31	0.2
Fuel Usage	SO ₂	962.5 MM BTU/yr	0.29	0.1
Fuel Usage	NOx	962.5 MM BTU/yr	4.41	2.1
Fuel Usage	CO	962.5 MM BTU/yr	0.95	0.5
Fuel Usage	VOC	962.5 MM BTU/yr	0.36	0.2

MINIMAL PERMIT DETERMINATION

7. The Authority has determined that the source qualifies as a minimal source for the following reasons:
 - a. Emissions from this source are estimated to be less than 5 tons per year of particulate matter and less than 10 tons per year for the criteria gaseous pollutants.

SPECIAL CONDITIONS

8. The facility is required to limit hours of operation in Lane County to 625 hours per year. The facility is required to notify the Authority 7 days in advance for crusher relocation to Lane County.

NESHAPS/MACT APPLICABILITY

9. There are no sources at this facility for which NESHAPS/MACT standards have been promulgated.

NSPS APPLICABILITY

10. There are no sources at this facility for which NSPS standards have been promulgated.

PUBLIC NOTICE

Renewal

11. The draft permit will be placed on public notice from April 23, 2001 to May 23, 2001. Comments may be submitted during the 30-day comment period. If requested by ten (10) or more individuals or an individual representing a group of more than ten (10) individuals, there will be a public hearing following the comment period.

After the comment period and hearing (if requested), LRAPA will respond to comments received and then take final action to issue or deny the permit within 45 days of the close of the public comment or hearing period.

MH/cmw [4/17/01]