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 Marci Henson, Director

For DAQ Use Only

## STONE CUTTING AND FINISHING OPERATIONS ANNUAL EMISSIONS INVENTORY REPORT

<b>Source ID (Permit) Number:</b>		<b>Reporting Year:</b>	
Company Name:			
Source (Facility) Name:			
Source (Facility) Address:			
City, State, and ZIP:			
Mailing Address (if different):			
City, State, and ZIP:			

**NOTE: This form will automatically calculate your actual emissions. Fill in lines 1-7 and lines 8-10 will automatically calculate.**

1. How many linear feet of granite, marble, and stone were cut at your facility during the calendar year of this report?		feet
2. How many linear feet of granite, marble, and stone were edged at your facility during the calendar year of this report?		feet
3. How many square feet of granite, marble, and stone were finished at your facility during the calendar year of this report?		sq ft
4. How many gallons of adhesive were used at your facility during the calendar year of this report?		gallons
5. What is the volatile organic compound (VOC) content (lbs/gal) of the adhesive? <i>(NOTE: VOC content is specified in the Safety Data Sheet (SDS) for the adhesive.)</i>		lbs/gal
6. How many gallons of solvent were used at your facility during the calendar year of this report? <i>(NOTE: Do not include Acetone usage in this report.)</i>		gallons
7. What is the VOC content (lbs/gal) of the solvent? <i>(NOTE: VOC content is specified in the Safety Data Sheet (SDS) for the solvent.)</i>		lbs/gal

8. Actual PM <sub>10</sub> emissions from stone cutting, edging, and finishing.		tons/yr
9. Actual VOC emissions from adhesive used at the facility.		tons/yr
10. Actual VOC emissions from solvent used at the facility.		tons/yr

I hereby certify that, based on information and belief formed after reasonable inquiry, the information contained in this document is true, accurate, and complete.

Responsible Official Signature	Signature Date
Responsible Official Name and Title: _____	
Responsible Official Phone: _____ Cellular: _____	
Responsible Official Email: _____	

Please complete this form to the best of your knowledge. Print and submit the completed report with the Responsible Official's original (wet) signature to the Division of Air Quality by mail or in person at the address listed above. *NOTE: If you wish to calculate your emissions manually, please print the blank worksheet and follow the instructions below.*

### **Directions for completing the form manually – Calculation Worksheet**

- **Cutting - To calculate actual PM<sub>10</sub> emissions from granite, marble and stone cutting, in tons/year:** Take the total annual linear feet of granite, marble and stone cut at the facility, for the reporting year and multiply the value by 0.146 lbs/ft. The result is then multiplied by 0.10 (90% moisture control) and the total is divided by 2000 lbs (round this to 2 decimal places) to yield tons/yr cut granite, marble and/or stone.

**Example:** A facility cut 10,000 linear feet of granite, marble and/or stone in a reporting year.

Calculation:  $10,000 \times 0.146 \times 0.10 \div 2,000 = 0.07$  tons/year PM<sub>10</sub>.

- **Edging - To calculate actual PM<sub>10</sub> emissions from granite, marble and stone edging, in tons/year:** Take the total annual linear feet of granite, marble and stone edged at the facility, for the reporting year, and multiply the value by 0.283 lbs/ft. The result is then multiplied by 0.10 (90% moisture control) and the total is divided by 2000 lbs (round this to 2 decimal places) to yield tons/yr cut granite, marble and/or stone.

**Example:** A facility edged 10,000 linear feet of granite, marble and/or stone in a reporting year.

Calculation:  $10,000 \times 0.283 \times 0.10 \div 2,000 = 0.14$  tons/year PM<sub>10</sub>.

- **Polishing/grinding - To calculate actual PM<sub>10</sub> emissions from granite, marble and stone polishing/grinding, in tons/year:** Take the total annual square feet of granite, marble and/or stone polished/ground at the facility, for the reporting year, and multiply the value by 0.169 lbs/ft<sup>2</sup>. The result is then multiplied by 0.10 (90% moisture control), if automated water hand tools are mandated in the permit. If not, leave out this step. In both cases, the total is divided by 2000 lbs (rounded to 2 decimal places) to yield tons/yr of polished/ground granite, marble and stone.

**Example:** A facility polished/ground 10,000 square feet of granite, marble and/or stone in a reporting year.

For automated water hand tools, Calculation:  $10,000 \times 0.169 \times 0.10 \div 2,000 = 0.08$  tons/year.

For a facility, that is **not** mandated to use automated water hand tools;

Calculation:  $10,000 \times 0.169 \div 2,000 = 0.85$  tons/yr PM<sub>10</sub>.

**VOC Emissions - To calculate actual VOC emissions, in tons/year:** Take each VOC-containing material (adhesive(s) and solvent(s)) used during the reporting year, in gallons, and multiply the gallons for each product by its VOC content, in lbs/gallon. The VOC content of a product will be stated in the Material Safety Data Sheet (MSDS) for each product. Divide the result by 2000 lbs (rounded to 2 decimal places) to yield tons/yr of VOC emissions.

**Note: Do not quantify Acetone usage.**

**Example:** A facility utilized 500 gallons of adhesive, and 500 gallons of mineral spirit solvent in a reporting year.

The adhesive has a VOC content of 5.8 lbs/gallon, per its MSDS.

Adhesive emissions are calculated as followed:  $500 \times 5.8 \div 2000 = 1.5$  tons/yr.

The solvent has a VOC content of 4.9 lbs/gallon, per its MSDS.

Solvent emissions are calculated as followed:  $500 \times 4.9 \div 2000 = 1.2$  tons/yr

If you have any questions or need clarification on or assistance in completing this form, please contact Air Quality Small Business Assistance Program at (702) 455-5942 or email at [aqsba@clarkcountynv.gov](mailto:aqsba@clarkcountynv.gov).