

Emissions Inventory Request Form Instructions

**MINERAL PRODUCTS – DRILLING & BLASTING OPERATIONS**

Please refer to the general instructions for guidance regarding the following sections: Reporting Year, Facility Identification, Permit Information, Device Information, Stack / Ducted Emissions and Fugitive Release Emissions.

**MATERIAL/ PROCESS INFORMATION**

Fill in all the data fields. Complete all blanks using the specified units. Report each Blasting Type.

**CALCULATION METHOD SELECTION**

- O19-D01-Wet Drilling and Blasting-Dynamite Only-Bumping
- O19-D02-Wet Drilling and Blasting-Dynamite + Ammonium Nitrate-Bumping
- O19-D03-Wet Drilling and Blasting-Dynamite + Nitroglycerine-Bumping
- O19-D04-Wet Drilling and Blasting-Ammonium Nitrate + Fuel Oil-Bumping
- O19-D05-Wet Drilling and Blasting-Unknown Explosive-Bumping

**Blasting Type:** Describe the blasting type, e.g., drill and shoot, or bumping.

**Total Material Quarried (tons/year):** Report the tons of material quarried for the reporting year.

**Fraction of Material Blasted (wt%):** How much of material quarried was blasted (wt%)

**Number of Blasts per Year:** Report the number of blasts that occurred during the reporting year.

**Average Area per Blast (ft<sup>2</sup>):** Report the average surface area per blast during the reporting year.

**Maximum Area per Blast (ft<sup>2</sup>):** Report the largest surface area blasted during the reporting year.

**Explosives Information:**

**Explosive Type (dynamite, etc.):** Report the type of explosive used. If different explosives were used at different times, report each type of explosive separately.

**Average Charges per Blast:** (self-explanatory)

**Average Charge Weight (lbs):** (self-explanatory)

**Average Charge Depth (feet):** (self-explanatory)

**Blasting Schedule:** Report the requested operating schedule information.

**Daily Operation (hours/day):** Report the average amount of hours the device operates in a typical day.

**Weekly Operation (days/week):** Report the average number of days the device operates in a typical week.

**Annual Operation (days/year):** Report the number of days the device operated during the Reporting Year.

**Max Charges per Blast:** Report the maximum number of charges in a blast during the Reporting Year.

**POLLUTANT NAME (lbs/ton Explosive or ppmw)**

If available, provide site-specific emission information with supporting documentation. Certain emission factors will need to be pre-approved by the District. Emission factors for Oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), and oxides of sulfur (SO<sub>x</sub>) are combustion by-products reported in units of pounds per ton of explosive used. Emission factors for the remaining pollutants are from the dust generation, which is reported in parts per million by weight (ppmw). Default values will be used to calculate emissions where site-specific information factors are not available or not documented. Input emission factors into EIS for submission either through direct entry through the 'Enter

Emissions Inventory Data' module or through upload of an EIQ spreadsheet.

Site-specific testing results will be accepted by the District if the protocol and results are approved by the District, which includes District review of the sampling program, approval of the number of sampling sites, location, and method for collection or any of the methods for analysis.

- A sampling and analysis protocol needs to be reviewed and approved by the District prior to the samples being collected.
- The District must be given the opportunity to witness testing.
- The sampling/collection protocol would need to be submitted with results summary and full analytical data package for District approval.