



Emissions Inventory Help Sheet for Concrete Batch Plants

Refer to the AQD Online Portal Emissions Inventory Instructions for more information.

What do I need to report?

Use a separate **Emission Unit** to report information on each group of sources of emissions at your plant. Include:

- all applicable sources from the list below (each as a separate Emission Unit).
- vehicles moving on unpaved areas on-site (see Help Sheet for Vehicle Travel on Unpaved Roads).
- gasoline storage (in tanks with capacity of 250 gallons or more, see Help Sheet for Fuel Storage and Handling).
- internal combustion engines including emergency backup engines that operated (not vehicle engines).

What are my emission factors?

Emission Unit type	Process Name/Description	SCC Code	Process Material	Unit of Measure	Emission Factors		Emission Factor Unit
					PM ₁₀	PM	
Material Handling (MAT)	Aggregate delivery to ground storage ¹	30501121	aggregate	ton	0.0033	0.0069	lb/ton
	Sand delivery to ground storage ¹	30501122	sand	ton	0.00099	0.0021	lb/ton
Open Air Fugitive Source (FUG)	Sand and aggregate storage piles ^{1, 2}	30502507	acres used for storage	acre	630	630	lb/acre-year
Crushing/Screening/Handling (CSH)	Aggregate transfer to conveyor ¹	30501123	aggregate	ton	0.0033	0.0069	lb/ton
	Sand transfer to conveyor ¹	30501124	sand	ton	0.00099	0.0021	lb/ton
	Aggregate transfer into elev. storage bin ¹	30501104	aggregate	ton	0.0033	0.0069	lb/ton
	Sand transfer into elevated storage bin ¹	30501105	sand	ton	0.00099	0.0021	lb/ton
Storage Tank/Silo (TNK)	Cement pneumatic transfer to elevated silo	30501107	cement	ton	0.47	0.73	lb/ton
	Cement supplement (such as flyash) ^{1, 3} pneumatic transfer to elevated silo ^{1, 3}	30501117	cement supplement	ton	1.10	3.14	lb/ton
Material Handling (MAT)	Weigh hopper loading ¹	30501108	sand + aggregate	ton	0.0028	0.0048	lb/ton
Concrete Batch/Cement Mixer (CMX)	Mixer loading (central mix) ¹	30501109	cement + supplement	ton	0.0055	0.0184	lb/ton
	Truck loading (truck mix) ¹	30501110	cement + supplement	ton	0.0263	0.098	lb/ton

¹ Reference: U.S. EPA, 1997. *Compilation of Air Pollutant Emission Factors AP-42*, Volume I: Stationary Point and Area Sources, fifth ed. Table 11.12-2 (6/06).

² The stockpile emission factor above is uncontrolled. You may account for dust control efforts on stockpiles and unpaved travel if you use water or other dust suppressants and if you are in full compliance with the record keeping requirements in Rule 316, Nonmetallic Mineral Processing. Associate the control equipment “Fugitive Dust Suppression”. Show capture efficiency = 100%. Control efficiency of 90% is allowed for regular watering or use of a chemical palliatives (dust suppressants). The stockpile emission factor above is uncontrolled. You may account for dust control efforts on stockpiles and unpaved travel if you use water or other dust suppressants and if you are in full compliance with the record keeping requirements in Rule 310, Fugitive Dust Sources and/or Rule 316, Nonmetallic Mineral Mining and Processing. For stockpile watering capture efficiency is 100%, and control efficiency of 90% for regular watering or use of a chemical palliatives (dust suppressants).

³ The silo loading emission factors above are uncontrolled. You may account for the control efficiency of an installed fabric filter baghouse if you are in full compliance with the operation and maintenance plan and the record keeping requirements in Rule 316, Nonmetallic Mineral Processing. Associate the control equipment "Filter/Baghouse". Show capture efficiency = 100%. Control efficiency for cement transfer is 99.93 (PM₁₀) and 99.86% (PM). Control efficiency for cement supplement transfer is 99.55% (PM₁₀) and 99.72 (PM).