

**S02 - CEMENT STORAGE SILO, BUCKET LOADING, SECTION 11.12 AP-42 (1/95), W/ VENT SOCK CONTROLS**

**CALCULATION METHODS**

$E_a = U_a \text{ (tons/yr)} \times EF \text{ (lbs TSP/ ton product)} \times C_i \text{ (lb/lb TSP)}$

$E_h = U_h \text{ (tons/hr)} \times EF \text{ (lbs TSP/ ton product)} \times C_i \text{ (lb/lb TSP)}$

**NOTES:**

- Ducted TSP emission factor (silo w/ vent sock) = 0.24 lbs/ton. Fugitive TSP emission factor = 0.
- Control efficiencies must be included in emission factors since the calculation procedure will not refer to the control efficiency data.
- TSP emission factors are based on EPA data in Section 11.12 of AP-42 (1/95).
- TSP emission factors represent controlled releases (i.e.; after silo vent controls).
- Trace metal emission factors are based on sample analyses submitted to the District for AB2588 purposes (~1996).

<b>POLLUTANT</b>	<b>District Emission Factor</b>	<b>REFERENCE</b>	<b>Default</b>	<b>(UNITS)</b>	<b>COMMENTS</b>
	<b>(lbs/lb TSP)</b>	<b>DOCUMENT</b>	<b>Composition</b>		
NOX					
CO					
SOX					
TOG					
ROG					
TSP	1.00	AP-42, 1/95, Sect 11.12, Table 11.12-2	1.00	lbs/lb TSP	TSP emission factors = 0.24 (Factor includes controls).
PM10	0.92	ARB PM10 Report (12/87)	0.92	lbs/lb TSP	ARB report indicates 92% of TSP is PM10 or less.
ALUMINUM	0.014720	Based on local sample analyses	16000	PPMW	Based on AWR Technical Report 96-07 (7/96)
ARSENIC	0.000020	Based on local sample analyses	22	PPMW	Based on AWR Technical Report 96-07 (7/96)
BERYLLIUM	0.000001	Based on local sample analyses	1	PPMW	Based on AWR Technical Report 96-07 (7/96)
CADMIUM	0.000001	Based on local sample analyses	1	PPMW	Based on AWR Technical Report 96-07 (7/96)
CHROMIUM HEXAVALENT	0.000005	Based on local sample analyses	5	PPMW	Based on AWR Technical Report 96-07 (7/96)
CHROMIUM NONHEXAVALENT	0.000053	Based on local sample analyses	58	PPMW	Based on AWR Technical Report 96-07 (7/96)
COPPER	0.000028	Based on local sample analyses	30	PPMW	Based on AWR Technical Report 96-07 (7/96)
LEAD	0.000011	Based on local sample analyses	12	PPMW	Based on AWR Technical Report 96-07 (7/96)
MANGANESE	0.000368	Based on local sample analyses	400	PPMW	Based on AWR Technical Report 96-07 (7/96)
MERCURY					
NICKEL	0.000023	Based on local sample analyses	25	PPMW	Based on AWR Technical Report 96-07 (7/96)
SELENIUM	0.000001	Based on local sample analyses	1	PPMW	Based on AWR Technical Report 96-07 (7/96)
SILICA, CRYSTALLINE					
ZINC	0.000085	Based on local sample analyses	92	PPMW	Based on AWR Technical Report 96-07 (7/96)