

**O01 - OPEN MATERIAL STORAGE AREAS, GENERAL, DISTRICT ENGINEERING ESTIMATE, INCLUDES 'NATURAL MOISTURE CONTENT OF SOILS'.**

**CALCULATION METHODS**

$$E_a = A \times [(E_{Fa} \times D_a) + (E_{Fi} \times D_i)] \times C_i \times (1 - e)$$

$$E_h = A \times [(E_{Fa} \times D_a) / H] \times C_i \times (1 - e)$$

**NOTES:**

- Open material storage fugitive emission control methods and efficiencies must be identified in the database if applicable. Emission factors assume "uncontrolled" releases.
- TSP and PM10 factors are based on Section 8.19 (9/85) of AP-42. The newer estimation procedures in the fifth edition of AP-42 are not currently used due to excessive data requirements.
- Trace metal default concentrations are based on local test results 1991 - 1996. Use site specific data if available.
- TSP emission factors are 13.2 lbs/active day and 3.5 lbs/inactive day.
- PM10 emission factors are 6.5 lbs/active day and 1.7 lbs/inactive day.

POLLUTANT	Default Composition	EPA REFERENCE	AP-42	(UNITS)	COMMENTS
	(ppmw)	DOCUMENT	FACTOR		
NOX					
CO					
SOX					
TOG					
ROG					
TSP	NA	AP-42, Section 8.19 (9/85) factors used.			TSP factors = 13.2 lbs/acre/active day & 3.5 lbs/acre/inactive day
PM10	1,000,000	AP-42, Section 8.19 (9/85) factors used.			PM10 factors = 6.5 lbs/acre/active day & 1.7 lbs/acre/inactive day
ALUMINUM					
ARSENIC	20				Based on local test results.
BARIUM					
BERYLLIUM	1				Based on local test results.
CADMIUM	1				Based on local test results.
CHROMIUM HEXAVALENT	0				Based on local test results. No Cr+6 detected in any samples analyzed.
CHROMIUM NONHEXAVALENT	50				Based on local test results.
COBALT					
COPPER	100				Based on local test results.
LEAD	50				Based on local test results.
MANGANESE	500				Based on local test results.
MERCURY	0				Based on local test results. No mercury detected in any samples analyzed.
NAPHTHALENE					
NICKEL	20				Based on local test results.
SELENIUM	5				Based on local test results.
SILICA, CRYSTALLINE	100,000				Based on local test results.
ZINC	200				Based on local test results.