

1998 Air Emission Calculations for the Annual Emissions Report

Pollutant	Allowable Rate Tons per Year	Actual Emission Tons per Year
Particulate Matter	198.59	83.75
SO ₂	5.36	0.37
NO _x	198.72	83.41
CO	147.09	20.70
VOC	190.01	50.87
TRS	0	0
LEAD	0.56	0
CFCs/HCFCs	0	0
Other	0	0
Total HAP's (VOC)	143.55	7.40
Total HAP's (Non-VOC)	7.74	2.59

1998 Natural Gas Usage (MMBTU) = 1217685 MMBTU

TSP/PM10 Calculation **AP-42 factor = 0.005 lb/MMBTU**

3.04 TPY

From Fluid Bed & Rotary Dryers (Based on 7/98 Stack testing)

Stack test (#/hr) = **7.53**
= **32.98 TPY**

From Cyclone Dryer #10 (Based on 7/98 Stack testing)

Stack test (#/hr) = **9.3**
= **40.73 TPY**

From Cyclone Dryer #11 (Based on 7/98 Stack testing)

Stack test (#/hr) = **6.34**
= **27.77 TPY**

From Vinyl Silos (Based on 7/98 Stack testing)

Stack test (#/hr) = **0.608**
= **2.66 TPY**

From cmpd silos (Based on 7/98 Stack testing)

Stack test (#/hr) = **0.90**
= **3.94 TPY**

Total = 80.70 TPY

SO₂ Calculation

AP-42 factor = 0.0006 lb/MMBTU

0.37 TPY

NO_x Calculation

AP-42 factor = 0.137 lb/MMBTU

83.41 TPY

CO Calculation

AP-42 factor = 0.034 lb/MMBTU

20.70 TPY

1998 Natural Gas Usage =**1217685 MMBTU****VOC Calculation**

AP-42 factor = 0.0057 lb/MMBTU

3.47 TPY

Total VOC from Plasticizer =**40.00 TPY (Permitted Total)****Fugative VCM =****2.40 TPY**

(Obtained from Environmental Coordinator)

VCM Stack Emissions =**4.74 TPY**

(EPA Method 107)

Total VCM Emissions =**7.14 TPY****Fugative Methanol Stack Emissions =****0.26 TPY****Total VOC Emissions =****50.87 TPY****Total HAP's (VOC) =****7.40 TPY**

Total HAP's (Non-VOC)

Lead Calculation

Total Lead Emissions = 0.004 TPY

HCl Calculation

Total HCl Emissions = 0.44 TPY

Chlorine Calculation

Total Chlorine Emissions = 2.15 TPY

Total HAP's (Non-VOC) Emitted = 2.59 TPY