This spreadsheet helps estimate a facility's potential to emit. It is provided for the convenience of the permitted community. Emission factor sources are subject to revision or correction. It is the permittee's responsibility to determine their emissions. The permittee should consult with the reviewing authority to determine the appropriateness of this calculator for its source.

If you have one or more of the following units that are exempt from the Indian Country Minor NSR Program, please contact your EPA Regional office before you use this calculator to determine whether you need to obtain a minor NSR permit: Internal combustion engines used for landscaping purposes; Emergency generators, designed solely for the purpose of providing electrical power during power outages; in nonattainment areas classified as Serious or lower, the total maximum manufacturer's site-rated hp of all units shall be below 500; in attainment areas, the total maximum manufacturer's site-rated hp of all units shall be below 1,000; Stationary internal combustion engines with a manufacturer's site-rated hp of less than 5; and Furnaces or boilers used for space heating that use only gaseous fuel, with a total maximum heat input (i.e., from all units combined) of in nonattainment areas classified as Serious or lower, 5 MMBtu/hr or less; in nonattainment areas classified as Severe or Extreme, 2 MMBtu/hr or less; and in attainment areas, 10 MMBtu/hr or less.

Enter the facility's information below in the cells with red text.

Directions: Write the letter "Y" or "N" next to each fuel type to indicate that the facility does or does not burn that type of fuel.

Enter the maximum capacity information for the equipment at your concrete batch mix operation (lines 14 - 24) OR

Enter the maximum number of yards of concrete your plant can deliver (maximum production capacity) in one year (line 26).

If you operate multiple facilities of the same type (more than one aggregate conveyor, more than one generator), enter the total rated capacity.

The potential emissions of criteria pollutants and hazardous air pollutants for the facility will be displayed under the "Output" tab.

This calculator does not calculate non-emergency engines. Contact your reviewing authority if you use non-emergency engines to power your operations.

If the throughput capacity of a piece of equipment limits (or bottlenecks) the maximum throughput of other equipment, then input the bottlenecked capacity of that other equipment, but only if it impacts output of product.

Facility Profile

Plant Equipment Maximum Throughput Capacity	Amount	Units	
Railcar/Barge/Truck Sand Unloading		tons/hr	Total
Railcar/Barge/Truck Aggregate Unloading		tons/hr	Total
Cement - Unloading to Elevated Storage		tons/hr	Total
Cement Supplement - Unloading to Elevated Storage		tons/hr	Total
Sand - Transfer to Conveyor		tons/hr	Total
Aggregate - Transfer to Conveyor	600	tons/hr	Total
Sand - Transfer to Elevated Storage		tons/hr	Total
Aggregate - Transfer to Elevated Storage		tons/hr	Total
Weigh Hopper Loading (Sand and Aggregate Only)	600	tons/hr	Total
Mixer Loading (Cement and Cement Supplement Only)	60	tons/hr	Total
Transit Mix Truck Loading (Cement and Cement Supp. Only)		tons/hr	Total

Plant Maximum Production Capacity 8200 Yards Mix/yr

Is the Dry Mix and Water Mixed Prior to Loading (Mixer Loading) or After **Mixer Loading** Loading (Truck Loading)? [Choose One]

Engines and Heaters units Natural Gas-fired Auxiliary Heater(s) Capacity -MMBtu/hr Total Propane-fired Auxiliary Heater(s) Capacity -MMBtu/hr Total Fuel Sulfur % 0.0015 Default = 0.0015 Default = 0.0015 Distillate/Diesel-fired Auxiliary Heater(s) Capacity -MMBtu/hr Fuel Sulfur % 0.0015 Total Diesel-fired Non-Emergency Engine(s) Size -Default = 0.0015230 Total Fuel Sulfur % 0.0015 hp Diesel-fired Emergency Generator(s) Size -Total Fuel Sulfur % 0.0015 Default = 0.0015hp Natural Gas/Propane-fired Emergency Generator(s) Size -Total Fuel Sulfur % 0.0015 Default = 0.0015 hp Gasoline-fired Emergency Generator(s) Size -Total Fuel Sulfur % Default = 0.0015

MMBtu = million British thermal units

hp = horsepower

Site Parameters units **ERROR: Input**

7/1/2016

		Sumn	nary - Total	Potential	to Emit				
		Odiffili	lary rotal	1 Otoritiai	to Linit				
tons/yr									
-					Pollutan	t			
Process	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _X	CO	VOC	Single HAP	Total HAPs
Materials Handling and Loading	35.58	17.48	2.27	-	-	-	-	-	-
Auxiliary Heater(s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00
Non-Emergency Engines	2.22	2.22	2.22	2.07	31.23	6.73	2.49		0.03
Emergency Generators*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.0000
Vehicle Traffic	0.00	0.00							
Storage Piles	0.0004	0.0002							
Solvent Degreasing							0.00		0.0000
_									
Controlled Emissions (ton/yr)	37.80	19.69	4.49	2.07	31.23	6.73	2.49	0.00	0.027

Note: Emissions from vehicle traffic and storage piles are considered fugitive emissions and are not counted towards PTE, as concrete batching is not one of the 28 listed source categories.

7/1/2016

Controlled Emissions from Concrete Batch Mix Materials Handling - Criteria Pollutants

Purple values are pulled from other worksheet Blue values are results

Calculation Methodology

Plant Equipment Maximum Throughput Capacity	Throughput		Emiss	sion Factor (lb/ton)	Potential to Emit		
Materials Handling Process	tons/hr	Controlled?	PM	PM ₁₀	PM _{2.5}	PM	PM ₁₀	PM _{2.5}
Railcar/Barge/Truck Sand Unloading	0	У	0.0021	0.00099	0.0001287	0.00	0.00	0.00
Railcar/Barge/Truck Aggregate Unloading	0	У	0.0069	0.0033	0.000429	0.00	0.00	0.00
Cement - Unloading to Elevated Storage	0	У	0.00099	0.00034	0.0000442	0.00	0.00	0.00
Cement Supplement - Unloading to Elevated Storage	0	У	0.0089	0.0049	0.000637	0.00	0.00	0.00
Sand - Transfer to Conveyor	0	У	0.0021	0.00099	0.0001287	0.00	0.00	0.00
Aggregate - Transfer to Conveyor	600	0	0.0069	0.0033	0.000429	18.13	8.67	1.13
Sand - Transfer to Elevated Storage	0	У	0.0021	0.00099	0.0001287	0.00	0.00	0.00
Aggregate - Transfer to Elevated Storage	0	У	0.0069	0.0033	0.000429	0.00	0.00	0.00
Weigh Hopper Loading	600	у	0.0048	0.0028	0.000364	12.61	7.36	0.96
Mixer Loading	60	У	0.0184	0.0055	0.000715	4.84	1.45	0.19
Truck Loading	0	У	0.098	0.0263	0.003419	0.00	0.00	0.00
OR								
Oit	Yards Mix/yr		Emiss	ion Factor (I	b/yard)		Emit	
Plant Maximum Production Capacity	8200	Controlled?	PM	PM_{10}	PM _{2.5}	PM	PM_{10}	$PM_{2.5}$
Railcar/Barge/Truck Sand Unloading	8200	У	0.0015	0.0007	0.000091	0.01	0.00	0.00
Railcar/Barge/Truck Aggregate Unloading	8200	У	0.0064	0.0031	0.000403	0.03	0.01	0.00
Cement - Unloading to Elevated Storage	8200	У	0.0002	0.0001	0.000013	0.00	0.00	0.00
Cement Supplement - Unloading to Elevated Storage	8200	У	0.0003	0.0002	0.000026	0.00	0.00	0.00
Sand - Transfer to Conveyor	8200	У	0.0015	0.0007	0.000091	0.01	0.00	0.00
Aggregate - Transfer to Conveyor	8200	0	0.0064	0.0031	0.000403	0.03	0.01	0.00
Sand - Transfer to Elevated Storage	8200	У	0.00015	0.00007	0.0000091	0.00	0.00	0.00
Aggregate - Transfer to Elevated Storage	8200	У	0.00064	0.00031	0.0000403	0.00	0.00	0.00
Weigh Hopper Loading	8200	У	0.00079	0.00038	0.0000494	0.00	0.00	0.00
Mixer Loading	8200	У	0.0051888	0.001551	0.0002016	0.02	0.01	0.00
Truck Loading	8200	у	0.027636	0.0074166	0.0009642	0.1	0.0	0.0
PTE (ton/yr)						35.58	17.48	2.27

Note:

Assume that transfer of sand and aggregate to elevated storage and weigh hopper loading has a capture/control efficiency of 90%. Emission factors are from AP-42, Chapter 11.12, Concrete Batching, Tables 11.12-2, 11.12-3, 11.12-4, and 11.12-6. (June 2006) PM 2.5 emission factors are from AP-42, Chapter 11.12, Concrete Batching, Background Document, Table 17.1. (June 2006) Assumes equipment is controlled, as required by GP

Methodology

PTE (ton/yr) = Throughput (tons/hr) x EF (lb/ton) x 8760 hr x 1 ton/2000 lb

PTE (ton/yr) = Yards mix/yr x EF (lb/yard) x 1 ton/2000 lb

7/1/2016

Emissions from Auxiliary Heaters - Criteria Pollutants and Hazardous Air Pollutants

Natural Gas-fired Auxiliary Heater(s) Capacity - 0 (MMBtu/hr)
Propane-fired Auxiliary Heater(s) Capacity - 0 (MMBtu/hr)
Distillate/Diesel-fired Auxiliary Heater(s) Capacity - 0 (MMBtu/hr)

Purple values are pulled from other worksheet

Blue values are results

Worst Case PTE (ton/yr)

PM	PM ₁₀	PM _{2.5}	SO ₂	NO_X	СО	VOC	HAPs
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Fuel Type: Na

Natural Gas	Used							
				Pollutant				
	PM	PM ₁₀ ²	PM _{2.5}	SO ₂	NO_X	CO	VOC	HAPs
Emission Factor ¹ (lb/MMSCF)	7.6	7.6	7.6	0.6	100	84	5.5	1.89
PTE (ton/yr)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note:

- 1. Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (updated 07/98).
- 2. Assumed PM and $PM_{2.5}$ emissions are equal to PM_{10} emissions.

Methodology

PTE (ton/yr) = Heat Input (MMBtu/hr) x 1 MMSCF/1,020 MMBtu x EF (lb/MMSCF) x 8760 hr/yr x 1 ton/2000 lb

Fuel Type:

Propane	Used		Sulfur Cor	ntent:	0.0015	%				
		Polluta				ant				
	PM	PM ₁₀ ²	PM _{2.5}	SO ₂	NO_X	CO	VOC	HAPs		
Emission Factor ¹ (lbs/kgal)	0.7	0.7	0.7	0.00015	13	7.5	1.0			
PTE (ton/yr)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

Note:

- 1. Emission factors are from AP-42, Chapter 1.5, Tables 1.5 (updated 07/08).
- 2. Assumed PM and $PM_{2.5}$ emissions are equal to PM_{10} emissions.

Methodology

PTE (ton/yr) = Heat Input (MMBtu/hr) x 1 kgal/91.5 MMBtu x EF (lb/kgal) x 8760 hr/yr x 1 ton/2000 lb

Fuel Type:

Liquid Fuel	Used		Sulfur Cor	ntent:	0.0015	%		
				Pollutant				
	PM^2	PM ₁₀	PM _{2.5}	SO ₂	NO_X	CO	VOC	HAPs
Emission Factor ¹ (lb/kgal)	2.0	3.3	2.55	0.213	20	5.0	0.34	0.5537
PTE (ton/yr)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note:

- 1. Emission factors are from AP-42, Chapter 1.3, Tables 1.3-1, 1.3-2, 1.3-3, 1.3-9, and 1.3-10 for Fuel Oil Combustion (updated 05/10).
- 2. Assume PM emissions are equal to PM10 emissions

Methodology

PTE (ton/yr) = Heat Input (MMBtu/hr) x 1 kgal/140 MMBtu x EF (lb/kgal) x 8760 hr/yr x 1 ton/2000 lb

7/1/2016

Emissions from Emergency Generator Engine - Criteria Pollutants and Hazardous Air Pollutants

Diesel-fired Emergency Generator Engine Size: 230 hp

Purple values are pulled from other worksheet Blue values are results

Worst Case PTE (ton/yr)

PM	PM ₁₀	PM _{2.5}	SO ₂	NO_X	CO	VOC	HAPs
2.22	2.22	2.22	2.07	31.23	6.73	2.49	0.0267

0.0015 %

Engine Type:

Diesel Engine (<= 600 hp) Used: Yes

				Pollutant				
	PM^2	PM ₁₀	$PM_{2.5}^{2}$	SO ₂	NO_X	CO	VOC ³	HAPs
Emission Factor ¹ (lbs/hp-hr)	2.20E-03	2.20E-03	2.20E-03	2.05E-03	3.10E-02	6.68E-03	2.47E-03	2.65328E-05
PTE (ton/yr)	2.22	2.22	2.22	2.07	31.23	6.73	2.49	0.0267

Note

- 1. Emission factors are from AP-42, Chapter 3.3, Tables 3.3-1 and 3.3-2 (updated 10/96).
- 2. Assume PM and $PM_{2.5}$ emissions are equal to PM_{10} emissions.
- 3. Assume TOC (total organic compounds) emissions equal to VOC emissions.
- 4. Assume 500 hours/yr of operation for an emergency engine

Methodology

PTE (ton/yr) = Engine Capacity (hp) x EF (lb/hp-hr) x 500 hr x 1 ton/2000 lb

Engine Type:

Diesel (> 600 hp) Used: No Sulfur Content:

		Pollutant							
	PM	PM ₁₀	$PM_{2.5}^{2}$	SO ₂	NO_X	CO	VOC ³	HAPs	
Emission Factor ¹ (lbs/hp-hr)	0.0007	0.0007	0.0007	1.21E-05	0.024	5.50E-03	7.05E-04	2.99739E-05	
Limited PTE (ton/yr)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	

Note:

- 1. Emission factors are from AP-42, Chapter 3.4, Tables 3.4-1 and 3.4-2 for Large Stationary Diesel and Dual Fuel Engines (updated 10/96).
- 2. Assume $PM_{2.5}$ emissions are equal to PM_{10} emissions.
- 3. Assume TOC (total organic compounds) emissions equal to VOC emissions.
- 4. Assume 500 hours/yr of operation for an emergency engine

Methodology

PTE (ton/yr) = Engine Capacity (hp) x EF (lb/hp-hr) x 500 hr x 1 ton/2000 lb

7/1/2016

Emissions from Emergency Generator Engine - Criteria Pollutants and Hazardous Air Pollutants

Diesel-fired Emergency Generator Engine Size: 0 hp Purple values are pulled from other worksheet Gasoline-fired Emergency Generator Engine Size: 0 hp Blue values are results

Worst Case PTE (ton/yr)

PM	PM ₁₀	$PM_{2.5}$	SO ₂	NO_X	CO	VOC	HAPs
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Engine Type:

Diesel Engine (<= 600 hp) Used: Yes Pollutant PM_{25}^2 PM_{10} SO_2 NO_X PM^2 CO VOC3 **HAPs** Emission Factor¹ (lbs/hp-hr) 2.20E-03 2.20E-03 2.20E-03 2.05E-03 3.10E-02 6.68E-03 2.47E-03 2.65328E-05 PTE (ton/yr) 0.00 0.00 0.00 0.00 0.0000 0.00 0.00 0.00

Note

- 1. Emission factors are from AP-42, Chapter 3.3, Tables 3.3-1 and 3.3-2 (updated 10/96).
- 2. Assume PM and $PM_{2.5}$ emissions are equal to PM_{10} emissions.
- 3. Assume TOC (total organic compounds) emissions equal to VOC emissions.
- 4. Assume 500 hours/yr of operation for an emergency engine

Methodology

PTE (ton/yr) = Engine Capacity (hp) x EF (lb/hp-hr) x 500 hr x 1 ton/2000 lb

Engine Type:

Diesel (> 600 hp)	lsed:	No Sulfur Content:			0.0015	%			
			Pollutant						
		PM	PM ₁₀	$PM_{2.5}^{2}$	SO ₂	NO_X	CO	VOC ³	HAPs
Emission Factor ¹ (lbs/hp-hr)		0.0007	0.0007	0.0007	1.21E-05	0.024	5.50E-03	7.05E-04	2.99739E-05
Limited PTE (ton/yr)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Note:

- 1. Emission factors are from AP-42, Chapter 3.4, Tables 3.4-1 and 3.4-2 for Large Stationary Diesel and Dual Fuel Engines (updated 10/96).
- 2. Assume $PM_{2.5}$ emissions are equal to PM_{10} emissions.
- 3. Assume TOC (total organic compounds) emissions equal to VOC emissions.
- 4. Assume 500 hours/yr of operation for an emergency engine

Methodology

PTE (ton/yr) = Engine Capacity (hp) x EF (lb/hp-hr) x 500 hr x 1 ton/2000 lb

Engine Type:

Gasoline	Used:	No						
		Pollutant						
	PM	PM ₁₀	$PM_{2.5}^{2}$	SO ₂	NO_X	CO	VOC ³	
Emission Factor ¹ (lbs/hp-hr)		7.21E-04	7.21E-04	7.21E-04	5.91E-04	0.011	6.96E-03	2.05E-02
Limited PTE (ton/yr)		0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note:

- 1. Emission factors are from AP-42, Chapter 3.3, Table 3.3-1 for Uncontrolled gasoline and Diesel Industrial Engines (updated 10/96).
- 2. Assume PM and $PM_{2.5}$ emissions are equal to PM_{10} emissions.
- 3. Assume TOC (total organic compounds) emissions equal to VOC emissions.
- 4. Assume 500 hours/yr of operation for an emergency engine

Methodology

PTE (ton/yr) = Engine Capacity (hp) x EF (lb/hp-hr) x 500 hr x 1 ton/2000 lb

7/1/2016

Emissions from Vehicle Traffic - Criteria Pollutants

AP 42 Emission Factors - Paved Roads

Purple values are pulled from other worksheet

Blue values are results

AP-42, Table 13.2.1-1

AP-42, Table 13.2.1-1

AP-42, Table 13.2.1-1

Reference:

According to AP 42, Chapter 13.2.1 - Paved Roads (01/2011), the PM/PM10/PM2.5 emission factors for paved roads can be estimated from the following equat

 $E_{\text{ext}} = (k (sL)^{0.91} (W)^{1.02}) (1 - p/(4 \times 365))$

Where:

E_{ext} = emission factor (lb/vehicle mile traveled)

k = empirical constant = 0.011 for PM 0.0022 for PM10 0.00054 for PM2.5 12.0 (g/m²) sL = road surface silt loading (g/m²) = w = mean vehicle weight (tons) = 0.0 tons w = mean vehicle weight (tons) = 0.0 tons

AP 42, Table 13.2.1-3 Provided by Applicant Provided by Applicant w = mean vehicle weight (tons) = 0.0 tons Provided by Applicant p = number of days per year with 0.01 inches precipitation = 50 days Provided by Applicant

,							
<u> </u>	Emission Factors (lb/mile)						
	PM	PM10	PM2.5				
Transit Mix Truck	0.00	0.00	0.00				
Gravel/Sand Delivery Truck	0.00	0.00	0.00				
Other Delivery Truck	0.00	0.00	0.00				

AP 42 Emission Factors - Unpaved Roads

Transit Mix Truck

Other Delivery Truck

Gravel/Sand Delivery Truck

According to AP 42, Section 13.2.2 Unpaved Roads (11/2006), the PM/PM10/PM2.5 emission factors for unpaved roads can be estimated from the following equation:

50

 $E_{\text{ext}} = k (s/12)^a (W/3)^b x (365-p)/365$

p = number of days per year with 0.01 inches precipitation =

Where:

E_{ext} = emission factor (lb/vehicle mile traveled) Reference: k = particle size multiplier = 4.9 for PM AP 42, Table 13.2.2-2 1.5 for PM10 AP 42, Table 13.2.2-2 0.15 for PM2.5 AP 42, Table 13.2.2-2 8.5 s = surface material silt content (%) = AP 42, Table 13.2.2-1 Transit Mix Truck W = mean vehicle weight = 0.0 tons Provided by Applicant Gravel/Sand Delivery Truck W = mean vehicle weight = 0.0 tons Provided by Applicant 0.0 tons Other Delivery Truck W = mean vehicle weight = Provided by Applicant a = empirical constant = 0.7 PM AP 42, Table 13.2.2-2 a = empirical constant = 0.9 PM10/PM2.5 AP 42, Table 13.2.2-2 b = empirical constant = 0.45 AP 42, Table 13.2.2-2

	Emission Factors (lb/mile)					
	PM	PM10	PM2.5			
Transit Mix Truck	0.00	0.00	0.00			
Gravel/Sand Delivery Truck	0.00	0.00	0.00			
Other Delivery Truck	0.00	0.00	0.00			

Provided by Applicant

Potential to Emit

			Pollutant	lutant			
Road Type	Vehicle Type	Avg. Wt. (tons)	Trips/year	Distance (miles)	PM	PM ₁₀	PM _{2.5}
Paved Roads	Transit Mix Truck	0	0	0	0.000	0.000	0.000
Paved Roads	Gravel/Sand Delivery Truck	0	0	0	0.000	0.000	0.000
Paved Roads	Other Delivery Truck	0	0	0	0.000	0.000	0.000
Jnpaved Roads	Transit Mix Truck	25	616	1	0.000	0.000	0.000
Unpaved Roads	Gravel/Sand Delivery Truck	25	616	1	0.000	0.000	0.000
Unpaved Roads	Other Delivery Truck	0	0	0	0.000	0.000	0.000

Methodology:

PTE (tons/yr) = Trips/yr x Distance (miles) x Emission Factor (lb/mile) x 1 ton/2,000 lbs

Controlled Emissions PM/PM10

The source will use periodic sweeping to control the fugitive dust emissions.

[EPA will assume 50% control from following fugitive dust control plan for roadways.] Control Efficiency From Sweeping (%):

> PM Emissions After Control (tons/yr) = PTE Before Control (tons/yr) x (1 - Control Efficiency From Sweeping/Watering (%)) = 0.00 PM10 Emissions After Control (tons/yr) = PTE Before Control (tons/yr) x (1 - Control Efficiency From Sweeping/Watering (%)) = 0.00

7/1/2016

Emissions from Storage Piles - Criteria Pollutants

Average Wind Speed 5 (mph) Purple values are pulled from other worksheet

Moisture Content of Storage Piles 5 (%) Blue values are results

Maximum Throughput Rate 1.5 (tons/hr)

Emission Factors:

According to AP-42, Chapter 13.2.4 - Aggregate Handling and Storage Piles, the PM/PM10 emission factors for storage piles can be estimated from the following equation:

Ef = $(0.0032 \times (U/5)^{1.3} \times k)/(M/2)^{1.4}$ where:

Ef = Emission Factor (lbs/ton)

k = Particle size multiplier = 1 for PM and 0.35 for PM10

U = Mean wind speed (mph) = 5 M = Moisture content (%) = 5.0

PM Emission Factor = 0.0009 lbs/ton process
PM10 Emission Factor = 0.00031 lbs/ton process
PM2.5 Emission Factor = 0.00005 lbs/ton process

	Pollutant						
	PM	PM ₁₀	PM _{2.5}	SO ₂	NO_X	СО	VOC
Emission Factor (lbs/ton)	0.0009	0.00031	0.00005	0.00	0.00	0.00	0.00
PTE (ton/yr)	0.0009	0.00031	0.00005	0	0	0	0

Methodology

Uncontrolled PM/PM10 (tons/yr) = Maximum Throughput Rate (tons/hr) x Emission Factor (lbs/ton) x 8,760 hr/yr x 1 ton/2,000 lbs

Controlled Emissions PM/PM10

The source will use periodic sweeping to control the fugitive dust emissions.

Control Efficiency From Watering (%): 50%

[EPA will assume 50% control from following fugitive dust control plan for roadways.]

PM Emissions After Control (tons/yr) = PTE Before Control (tons/yr) x (1 - Control Efficiency From Sweeping/Watering (%)) = 0.00044
PM10 Emissions After Control (tons/yr) = PTE Before Control (tons/yr) x (1 - Control Efficiency From Sweeping/Watering (%)) = 0.00016

7/1/2016

Emissions from Solvent Degreasers - Criteria Pollutants and Hazardous Air Pollutants

Purple values are pulled from other worksheet Blue values are results

INPUT THE FOLLOWING INFORMATION ABOUT ONSITE SOLVENT USE

Annual Solvent Use/Purchases (gal/year)	0	
Solvent Density (lbs/gal)	0	
Solvent VOC Content (%)	0	Note: Enter whole number for percent. If VOC content is 50 percent, enter "50".
Solvent HAP Content (%)	0	Note: Enter whole number for percent. If HAP content is 50 percent, enter "50".
Solvent Sent Offsite for Recycling (gal/yr)	0	

	Pollutant		
	VOC	HAPs	
PTE (ton/yr) Controlled Emissions (ton/yr)	0.00 0.00	0.00 0.00	

Methodology

PTE (ton/yr) = Solvent Use (gal/yr) x Density (lb/gal) x % VOC Content x 1 ton/2,000 lb Controlled Emissions (ton/yr) = PTE (ton/yr) x (1 - (Recycled Solvent (gal/yr)/Purchased Solvent (gal/yr)))