

**Appendix B**

**Emissions Factor Data Set Records**

February 2007

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## **Appendix B.1**

### **Wood Residue Combustion**

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**Table B.1-1 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Acetaldehyde Emissions Factor Taken From Table 1.6-3**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
Acetaldehyde	B100	Wet Wood	Dutch Oven	Wet Scrubber	1	3.93E-05
Acetaldehyde	B101	Wet Wood	Stoker	ESP	2	6.17E-04
Acetaldehyde	B12	Dry Wood	Stoker	Mechanical Collector	1	7.26E-04
Acetaldehyde	B134	Wet Wood	Stoker	ESP	2	6.90E-05
Acetaldehyde	B14	Wet Wood	Not Reported	Mechanical Collector	1	2.37E-04
Acetaldehyde	B143	Wet Wood	Stoker	Mechanical Collector	1	1.20E-02
Acetaldehyde	B15	Dry Wood	Stoker	Mechanical Collector	1	1.67E-05
Acetaldehyde	B16	Dry Wood	Stoker	Uncontrolled	1	2.89E-04
Acetaldehyde	B19	Dry Wood	Stoker	Mechanical Collector	1	7.80E-06
Acetaldehyde	B26	Wet Wood	Stoker	Wet Scrubber	1	1.59E-04
Acetaldehyde	B30	Wet Wood	FBC	Fabric Filter	2	1.66E-05
Acetaldehyde	B33	Dry Wood	Not Reported	Mechanical Collector	1	3.80E-05
Acetaldehyde	B42	Dry Wood	Stoker	Mechanical Collector	1	8.00E-06
Acetaldehyde	B45	Bark	Stoker	Wet Scrubber	1	2.34E-04
Acetaldehyde	B50	Wet Wood	FBC	Uncontrolled	1	1.22E-04
Acetaldehyde	B78	Wet Wood	Stoker	Wet Scrubber	1	1.96E-03
Acetaldehyde	B81	Wet Wood	Dutch Oven	Mechanical Collector	1	5.23E-04
Acetaldehyde	B86	Bark/Wet Wood	FBC	ESP	1	2.50E-05
Acetaldehyde	B91	Bark/Wet Wood	Stoker	ESP	1	5.93E-05
Acetaldehyde	B92	Wet Wood	Stoker	ESP	1	5.01E-05
Acetaldehyde	B99	Wet Wood	Dutch Oven	Mechanical Collector	1	2.33E-04
					<b>Average:</b>	<b>8.30E-04</b>
					<b>Tests:</b>	<b>21</b>
					<b>Runs:</b>	<b>24</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (ALLOTHERPLLOTS Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-2 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Arsenic Emissions Factor Taken From Table 1.6-4**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
Arsenic	B08	Wet Wood	Stoker	ESP	1	3.12E-05
Arsenic	B100	Bark/Wet Wood	Dutch Oven	Wet Scrubber	1	6.01E-06
Arsenic	B101	Wet Wood	Stoker	ESP	1	3.21E-07
Arsenic	B110	Bark	Stoker	Wet Scrubber	1	8.31E-05
Arsenic	B12	Dry Wood	Stoker	Mechanical Collector	1	4.50E-05
Arsenic	B133	Wet Wood	Stoker	Fabric Filter	1	1.29E-07
Arsenic	B134	Wet Wood	Stoker	ESP	1	1.62E-07
Arsenic	B137	Dry Wood; Wet Wood	Not Reported	Fabric Filter, Mechanical Collector	2	2.88E-04
Arsenic	B14	Wet Wood	Not Reported	Mechanical Collector	1	6.70E-07
Arsenic	B15	Wet Wood	Stoker	Mechanical Collector	1	1.58E-09
Arsenic	B19	Dry Wood	Stoker	Mechanical Collector	1	8.15E-07
Arsenic	B23	Wet Wood	Stoker	ESP	1	1.96E-07
Arsenic	B25	Wet Wood	Not Reported	Wet Scrubber	1	1.84E-06
Arsenic	B26	Wet Wood	Stoker	Wet Scrubber	1	7.15E-06
Arsenic	B30	Wet Wood	FBC	Fabric Filter	1	2.14E-07
Arsenic	B33	Dry Wood	Not Reported	Mechanical Collector	1	4.22E-06
Arsenic	B45	Bark	Stoker	Wet Scrubber	1	2.49E-11
Arsenic	B49	Wet Wood	Not Reported	ESP	1	1.59E-06
Arsenic	B62	Wet Wood	Stoker	Fabric Filter	1	2.91E-06
Arsenic	B78	Wet Wood	Stoker	Wet Scrubber	1	1.14E-06
Arsenic	B81	Wet Wood	Dutch Oven	Mechanical Collector	1	1.09E-05
Arsenic	B91	Bark/Wet Wood	Stoker	ESP	1	2.01E-07
Arsenic	B99	Wet Wood	Dutch Oven	Mechanical Collector	1	2.10E-05
					<b>Average:</b>	<b>2.20E-05</b>
					<b>Tests:</b>	<b>23</b>
					<b>Runs:</b>	<b>24</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (ALLOTHERPLLTs Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-3 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Benzene Emissions Factor Taken From Table 1.6-3**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
Benzene	B100	Bark/Wet Wood	Dutch Oven	Wet Scrubber	1	9.95E-04
Benzene	B101	Wet Wood	Stoker	ESP	1	1.61E-03
Benzene	B127	Wet Wood	Not Reported	ESP	2	1.90E-03
Benzene	B133	Wet Wood	Stoker	Fabric Filter	1	1.15E-03
Benzene	B134	Wet Wood	Stoker	ESP	2	2.35E-04
Benzene	B135	Wet Wood	Stoker	ESP	1	1.90E-04
Benzene	B14	Wet Wood	Not Reported	Mechanical Collector	1	2.91E-05
Benzene	B19	Dry Wood	Stoker	Mechanical Collector	1	2.90E-03
Benzene	B26	Wet Wood	Stoker	Wet Scrubber	1	2.72E-04
Benzene	B45	Bark	Stoker	Wet Scrubber	1	4.23E-03
Benzene	B50	Wet Wood	FBC	Uncontrolled	1	3.92E-05
Benzene	B74	Bark/Wet Wood	Stoker	Fabric Filter	1	5.65E-05
Benzene	B78	Wet Wood	Stoker	Wet Scrubber	2	6.48E-02
Benzene	B79	Wet Wood	Not Reported	Wet Scrubber	1	3.80E-04
Benzene	B81	Wet Wood	Dutch Oven	Mechanical Collector	1	2.13E-05
Benzene	B86	Bark/Wet Wood	FBC	ESP	1	2.55E-05
Benzene	B91	Bark/Wet Wood	Stoker	ESP	1	6.66E-04
Benzene	B92	Wet Wood	Stoker	ESP	1	5.70E-04
Benzene	B99	Wet Wood	Dutch Oven	Mechanical Collector	1	1.54E-05
					<b>Average:</b>	<b>4.21E-03</b>
					<b>Tests:</b>	<b>19</b>
					<b>Runs:</b>	<b>22</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (ALLOTHERPLLOTS Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-4 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Cadmium Emissions Factor Taken From Table 1.6-4**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
Cadmium	B08	Wet Wood	Stoker	ESP	1	2.33E-06
Cadmium	B100	Bark/Wet Wood	Dutch Oven	Wet Scrubber	1	1.64E-06
Cadmium	B101	Wet Wood	Stoker	ESP	1	6.04E-06
Cadmium	B107	Bark	Not Reported	Wet Scrubber	1	1.37E-05
Cadmium	B110	Bark	Stoker	Wet Scrubber	1	1.49E-05
Cadmium	B12	Dry Wood	Stoker	Mechanical Collector	1	8.47E-06
Cadmium	B128	Bark/Wet Wood	Not Reported	Mechanical Collector	1	6.41E-06
Cadmium	B133	Wet Wood	Stoker	Fabric Filter	1	3.73E-07
Cadmium	B134	Wet Wood	Stoker	ESP, Uncontrolled	2	7.76E-07
Cadmium	B14	Wet Wood	Not Reported	Mechanical Collector	1	3.68E-06
Cadmium	B19	Dry Wood	Stoker	Mechanical Collector	1	1.90E-06
Cadmium	B25	Wet Wood	Not Reported	Wet Scrubber	1	1.78E-07
Cadmium	B26	Wet Wood	Stoker	Wet Scrubber	1	1.45E-06
Cadmium	B30	Wet Wood	FBC	Fabric Filter	1	2.21E-07
Cadmium	B33	Dry Wood	Not Reported	Mechanical Collector	1	3.37E-06
Cadmium	B45	Bark	Stoker	Wet Scrubber	1	3.01E-13
Cadmium	B49	Wet Wood	Not Reported	ESP	1	5.70E-06
Cadmium	B62	Wet Wood	Stoker	Fabric Filter	1	3.41E-07
Cadmium	B68	Dry Wood	Stoker	Mechanical Collector	1	1.63E-05
Cadmium	B72	Wet Wood	Stoker	ESP	1	2.32E-07
Cadmium	B78	Wet Wood	Stoker	Wet Scrubber	1	2.14E-06
Cadmium	B81	Wet Wood	Dutch Oven	Mechanical Collector	1	2.18E-06
Cadmium	B91	Bark/Wet Wood	Stoker	ESP	1	2.01E-07
Cadmium	B99	Wet Wood	Dutch Oven	Mechanical Collector	1	5.65E-06
					<b>Average:</b>	<b>4.09E-06</b>
					<b>Tests:</b>	<b>24</b>
					<b>Runs:</b>	<b>25</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (ALLOTHERPLLTS Worksheet Tab), which is located in zip folder r01s06.zip



**Table B.1-5 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, CO Emissions Factor Taken From Table 1.6-2**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
CO	B131	Bark	Stoker	Wet Scrubber	1	0.456
CO	B45	Bark	Stoker	Wet Scrubber	5	1.398
CO	B60	Bark	Dutch Oven	Fabric Filter	1	0.295
CO	B100	Bark/Wet Wood	Dutch Oven	Wet Scrubber	4	0.965
CO	B103	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.515
CO	B104	Bark/Wet Wood	Dutch Oven	Uncontrolled	1	1.580
CO	B106	Bark/Wet Wood	Stoker	Fabric Filter	1	0.113
CO	B109	Bark/Wet Wood	Not Reported	Wet Scrubber	1	1.040
CO	B115	Bark/Wet Wood	Stoker	Wet Scrubber	1	1.080
CO	B116	Bark/Wet Wood	Stoker	Wet Scrubber	9	0.429
CO	B117	Bark/Wet Wood	Not Reported	Mechanical Collector	1	0.299
CO	B129	Bark/Wet Wood	Stoker	Wet Scrubber	2	0.556
CO	B130	Bark/Wet Wood	Not Reported	Wet Scrubber	2	0.263
CO	B147	Bark/Wet Wood	Dutch Oven	Uncontrolled	1	0.604
CO	B17	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.542
CO	B18	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.721
CO	B28	Bark/Wet Wood	Stoker	Not Reported	1	0.421
CO	B59	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.680
CO	B74	Bark/Wet Wood	Stoker	Fabric Filter	2	0.195
CO	B91	Bark/Wet Wood	Stoker	ESP	5	1.179
CO	B02	Dry Wood	Stoker	Uncontrolled	1	0.779
CO	B03	Dry Wood	Stoker	Uncontrolled	1	0.485
CO	B04	Dry Wood	Stoker	Uncontrolled	1	0.035
CO	B05	Dry Wood	Stoker	Mechanical Collector	1	0.087
CO	B09	Dry Wood	Stoker	Mechanical Collector	2	0.670
CO	B11	Dry Wood	Not Reported	Uncontrolled	1	0.213
CO	B15	Dry Wood	Stoker	Mechanical Collector	1	0.349
CO	B16	Dry Wood	Stoker	Uncontrolled	1	0.410
CO	B19	Dry Wood	Stoker	Mechanical Collector	5	2.556
CO	B38	Dry Wood	Stoker	Not Reported	2	0.766
CO	B38	Dry Wood	Stoker	Uncontrolled	1	0.357
CO	B39	Dry Wood	Dutch Oven	Not Reported	1	0.336
CO	B40	Dry Wood	Stoker	Mechanical Collector	2	0.779
CO	B42	Dry Wood	Stoker	Mechanical Collector	1	0.204
CO	2043	Wet Wood	Dutch oven		3	0.679
CO	2141	Wet Wood	Spreader/Stoker	Wet Scrubber	3	1.883
CO	2154	Wet Wood	Dutch oven	Multiclone	3	0.444
CO	2158	Wet Wood	Dutch oven	Multiclone	3	0.695
CO	2162	Wet Wood	Dutch oven	Multiclone	3	0.542
CO	2166	Wet Wood	Dutch oven	Multiclone	3	0.720
CO	2260	Wet Wood	Wellons Fuel Cell	Cyclone	2	0.092
CO	2325	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	2	0.601
CO	2337	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	6	0.293
CO	2356	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	6	0.999
CO	2372	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	2	0.592
CO	2375	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	1	0.564
CO	2402	Wet Wood	Dutch oven	Wet Scrubber	3	0.541
CO	2415	Wet Wood	Dutch oven	Wet Scrubber	3	0.631
CO	2419	Wet Wood	Dutch oven	Wet Scrubber	6	1.251
CO	2435	Wet Wood	Spreader/Stoker	Wet Scrubber	3	1.042
CO	2439	Wet Wood	Dutch oven	Wet Scrubber	10	0.876
CO	2450	Wet Wood	Dutch oven	Wet Scrubber	6	0.506

**Table B.1-5 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, CO Emissions Factor Taken From Table 1.6-2**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
CO	2458	Wet Wood	Stoker	Wet Scrubber	3	0.644
CO	2459	Wet Wood	Stoker	Wet Scrubber	3	1.119
CO	2633	Wet Wood	Coen		3	0.824
CO	2641	Wet Wood	Coen		3	0.028
CO	2689	Wet Wood	Coen		3	0.695
CO	2696	Wet Wood	Dutch oven		12	1.293
CO	2743	Wet Wood	Dutch oven	Multiclone	5	1.055
CO	2750	Wet Wood	Dutch oven	Multiclone	2	0.197
CO	3284	Wet Wood	Spreader/Stoker	Multiclone	3	0.226
CO	3288	Wet Wood	Spreader/Stoker	Multiclone	3	1.418
CO	3292	Wet Wood	Spreader/Stoker	Multiclone	3	0.148
CO	3934	Wet Wood	Stoker	Multiclone	3	0.123
CO	3950	Wet Wood	Dutch oven		3	0.525
CO	4426	Wet Wood	Wellons Fuel Cell		3	0.191
CO	4550	Wet Wood	Stoker	Wet Scrubber	1	0.272
CO	4620	Wet Wood	Wellons Fuel Cell	Multiclone	3	0.067
CO	4732	Wet Wood	Stoker	Multiclone	3	0.388
CO	4736	Wet Wood	Stoker	Multiclone	1	2.416
CO	4799	Wet Wood	Dutch oven	Multiclone	3	0.297
CO	4803	Wet Wood	Dutch oven	Multiclone	3	0.240
CO	4807	Wet Wood	Dutch oven	Multiclone	3	0.323
CO	4811	Wet Wood	Wellons Fuel Cell	Multiclone	3	0.092
CO	4998	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	2	1.067
CO	5041	Wet Wood	Dutch oven	Wet Scrubber	4	2.578
CO	5163	Wet Wood	Spreader/Stoker	Wet Scrubber	3	1.110
CO	B08	Wet Wood	Stoker	ESP	1	0.146
CO	B100	Wet Wood	Dutch Oven	Wet Scrubber	1	0.865
CO	B101	Wet Wood	Stoker	ESP	3	0.603
CO	B125	Wet Wood	Not Reported	ESP	2	0.123
CO	B127	Wet Wood	Not Reported	ESP	6	0.481
CO	B132	Wet Wood	Stoker	Fabric Filter	1	0.427
CO	B133	Wet Wood	Stoker	Fabric Filter	2	0.113
CO	B134	Wet Wood	Stoker	ESP	12	0.252
CO	B135	Wet Wood	Stoker	ESP	2	0.391
CO	B136	Wet Wood	Stoker	Uncontrolled	1	0.884
CO	B138	Wet Wood	Not Reported	Mechanical Collector	1	0.166
CO	B139	Wet Wood	Stoker	Mechanical Collector	1	0.161
CO	B14	Wet Wood	Not Reported	Mechanical Collector	3	2.227
CO	B140	Wet Wood	Stoker	Mechanical Collector	1	0.112
CO	B142	Wet Wood	Dutch Oven	Mechanical Collector	1	0.191
CO	B23	Wet Wood	Stoker	ESP	2	0.115
CO	B26	Wet Wood	Stoker	Wet Scrubber	4	0.200
CO	B27	Wet Wood	Not Reported	Uncontrolled	1	0.590
CO	B41	Wet Wood	Stoker	Mechanical Collector	1	1.980
CO	B47	Wet Wood	Not Reported	Fabric Filter	1	0.254
CO	B48	Wet Wood	Not Reported	Fabric Filter	1	0.619
CO	B49	Wet Wood	Not Reported	ESP	1	0.985
CO	B51	Wet Wood	Not Reported	Not Reported	1	0.695
CO	B62	Wet Wood	Stoker	Fabric Filter	1	0.050
CO	B72	Wet Wood	Stoker	ESP	1	0.352
CO	B75	Wet Wood	Not Reported	Mechanical Collector	3	1.029
CO	B78	Wet Wood	Stoker	Wet Scrubber	1	0.535

**Table B.1-5 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, CO Emissions Factor Taken From Table 1.6-2**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
CO	B81	Wet Wood	Dutch Oven	Mechanical Collector	5	0.179
CO	B87	Wet Wood	Stoker	Electrolyzed Gravel Bed	2	0.991
CO	B90	Wet Wood	Dutch Oven	Mechanical Collector	1	0.556
CO	B92	Wet Wood	Stoker	ESP	2	0.954
CO	B99	Wet Wood	Dutch Oven	Mechanical Collector	5	0.408
CO	CTC007	Wet Wood	Spreader Stoker	Combustion Controls	1	0.700
CO	CTC008	Wet Wood	Spreader Stoker	Combustion Controls	1	0.343
CO	CTC026	Wet Wood	Spreader Stoker	None	1	0.235
CO	CTC075	Wet Wood	Spreader Stoker	None	1	0.343
CO	CTC078	Wet Wood	Spreader Stoker	None	1	0.888
CO	CTC080	Wet Wood	Spreader Stoker	None	1	0.837
CO	CTC081	Wet Wood	Spreader Stoker	None	1	0.451
CO	CTC085	Wet Wood	Spreader Stoker	None	1	0.273
CO	CTC105	Wet Wood	Spreader Stoker	None	1	0.155
CO	CTC106	Wet Wood	Spreader Stoker	Selective Non-Catalytic Reduction	1	0.082
CO	CTC111	Wet Wood	Spreader Stoker	None	1	0.668
CO	CTC113	Wet Wood	Spreader Stoker	Combustion Controls	1	0.165
CO	CTC117	Wet Wood	Spreader Stoker	None	1	0.396
CO	CTC118	Wet Wood	Spreader Stoker	None	1	0.259
CO	CTC119	Wet Wood	Spreader Stoker	Combustion Controls	1	0.260
CO	CTC120	Wet Wood	Spreader Stoker	None	1	0.317
CO	CTC121	Wet Wood	Spreader Stoker	None	1	0.230
CO	CTC122	Wet Wood	Spreader Stoker	None	1	0.158
CO	CTC123	Wet Wood	Spreader Stoker	None	1	0.220
					<b>Average:</b>	<b>0.596</b>
					<b>Tests:</b>	<b>128</b>
					<b>Runs:</b>	<b>302</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (CO Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-6 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Chromium Emissions Factor Taken From Table 1.6-4**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
Chromium	B08	Wet Wood	Stoker	ESP	1	2.26E-06
Chromium	B100	Bark/Wet Wood	Dutch Oven	Wet Scrubber	1	2.09E-05
Chromium	B101	Wet Wood	Stoker	ESP	1	1.20E-06
Chromium	B110	Bark	Stoker	Wet Scrubber	1	4.86E-05
Chromium	B12	Dry Wood	Stoker	Mechanical Collector	1	7.91E-05
Chromium	B125	Wet Wood	Not Reported	ESP	1	4.13E-06
Chromium	B128	Bark/Wet Wood	Not Reported	Mechanical Collector	1	1.12E-05
Chromium	B133	Wet Wood	Stoker	Fabric Filter	1	4.53E-07
Chromium	B134	Wet Wood	Stoker	ESP, Uncontrolled	2	5.03E-07
Chromium	B137	Wet Wood	Not Reported	Mechanical Collector	2	1.61E-04
Chromium	B14	Wet Wood	Not Reported	Mechanical Collector	1	1.69E-05
Chromium	B19	Dry Wood	Stoker	Mechanical Collector	1	9.17E-06
Chromium	B20	Bark	Not Reported	Wet Scrubber	1	5.06E-06
Chromium	B23	Wet Wood	Stoker	ESP	1	4.38E-07
Chromium	B25	Wet Wood	Not Reported	Wet Scrubber	1	3.36E-06
Chromium	B26	Wet Wood	Stoker	Wet Scrubber	1	1.95E-05
Chromium	B30	Wet Wood	FBC	Fabric Filter	1	5.92E-07
Chromium	B33	Dry Wood	Not Reported	Mechanical Collector	1	3.46E-05
Chromium	B41	Dry Wood; Wet Wood	Stoker	Mechanical Collector	2	1.81E-05
Chromium	B45	Bark	Stoker	Wet Scrubber	1	3.99E-12
Chromium	B62	Wet Wood	Stoker	Fabric Filter	1	3.86E-06
Chromium	B68	Dry Wood	Stoker	Mechanical Collector	1	3.13E-05
Chromium	B72	Wet Wood	Stoker	ESP	1	1.78E-07
Chromium	B78	Wet Wood	Stoker	Wet Scrubber	1	4.00E-06
Chromium	B81	Wet Wood	Dutch Oven	Mechanical Collector	1	3.49E-05
Chromium	B91	Bark/Wet Wood	Stoker	ESP	1	1.02E-06
Chromium	B99	Wet Wood	Dutch Oven	Mechanical Collector	1	4.35E-05
					<b>Average:</b>	<b>2.06E-05</b>
					<b>Tests:</b>	<b>27</b>
					<b>Runs:</b>	<b>30</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (ALLOTHERPLLTs Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-7 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Formaldehyde Emissions Factor Taken From Table 1.6-3**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
Formaldehyde	B07	Wet Wood	Not Reported	Mechanical Collector	1	3.08E-03
Formaldehyde	B09	Dry Wood	Stoker	Mechanical Collector	2	3.86E-04
Formaldehyde	B100	Wet Wood	Dutch Oven	Wet Scrubber	1	8.98E-05
Formaldehyde	B101	Wet Wood	Stoker	ESP	2	9.19E-03
Formaldehyde	B102	Wet Wood	Not Reported	Uncontrolled	1	2.64E-03
Formaldehyde	B108	Wet Wood	Not Reported	Uncontrolled	1	1.25E-03
Formaldehyde	B109	Bark/Wet Wood	Not Reported	Wet Scrubber	1	1.76E-04
Formaldehyde	B11	Dry Wood	Not Reported	Uncontrolled	1	1.93E-04
Formaldehyde	B110	Bark	Stoker	Wet Scrubber	2	7.06E-04
Formaldehyde	B118	Wet Wood	Not Reported	Uncontrolled	1	6.46E-04
Formaldehyde	B119	Wet Wood	Not Reported	Uncontrolled	1	2.19E-03
Formaldehyde	B12	Dry Wood	Stoker	Mechanical Collector	1	2.85E-03
Formaldehyde	B125	Wet Wood	Not Reported	ESP	2	1.58E-04
Formaldehyde	B126	Dry Wood	Not Reported	Mechanical Collector	1	3.50E-03
Formaldehyde	B127	Wet Wood	Not Reported	ESP	2	3.34E-03
Formaldehyde	B128	Wet Wood	Not Reported	Mechanical Collector	1	1.78E-03
Formaldehyde	B129	Bark/Wet Wood	Stoker	Wet Scrubber	2	5.80E-03
Formaldehyde	B130	Bark/Wet Wood	Not Reported	Wet Scrubber	2	1.52E-02
Formaldehyde	B132	Wet Wood	Stoker	Fabric Filter	1	2.62E-03
Formaldehyde	B134	Wet Wood	Stoker	ESP	2	2.89E-04
Formaldehyde	B136	Wet Wood	Stoker	Uncontrolled	1	1.06E-02
Formaldehyde	B139	Wet Wood	Stoker	Mechanical Collector	1	8.39E-04
Formaldehyde	B14	Wet Wood	Not Reported	Mechanical Collector	1	8.99E-04
Formaldehyde	B143	Wet Wood	Stoker	Mechanical Collector	1	3.63E-02
Formaldehyde	B15	Dry Wood	Stoker	Mechanical Collector	1	2.33E-04
Formaldehyde	B16	Dry Wood	Stoker	Uncontrolled	1	1.43E-03
Formaldehyde	B19	Dry Wood	Stoker	Mechanical Collector	1	1.71E-04
Formaldehyde	B26	Wet Wood	Stoker	Wet Scrubber	1	6.22E-04
Formaldehyde	B30	Wet Wood	FBC	Fabric Filter	2	1.11E-05
Formaldehyde	B31	Wet Wood	Stoker	ESP	1	3.53E-05
Formaldehyde	B33	Dry Wood	Not Reported	Mechanical Collector	1	2.70E-05
Formaldehyde	B38	Dry Wood	Stoker	Not Reported	1	2.32E-03
Formaldehyde	B39	Dry Wood	Dutch Oven	Not Reported	1	2.26E-03
Formaldehyde	B40	Dry Wood	Stoker	Mechanical Collector	2	2.66E-04
Formaldehyde	B42	Dry Wood	Stoker	Mechanical Collector	1	3.73E-04
Formaldehyde	B45	Bark	Stoker	Wet Scrubber	1	5.39E-04

**Table B.1-7 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Formaldehyde Emissions Factor Taken From Table 1.6-3**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
Formaldehyde	B50	Wet Wood	FBC	Uncontrolled	1	7.80E-04
Formaldehyde	B51	Wet Wood	Not Reported	Not Reported	1	4.90E-02
Formaldehyde	B60	Bark	Dutch Oven	Fabric Filter	1	2.17E-04
Formaldehyde	B74	Bark/Wet Wood	Stoker	Fabric Filter	1	2.58E-04
Formaldehyde	B80	Wet Wood	Stoker	Uncontrolled	1	5.39E-03
Formaldehyde	B81	Wet Wood	Dutch Oven	Mechanical Collector	1	6.65E-04
Formaldehyde	B86	Bark/Wet Wood	FBC	ESP	1	2.65E-05
Formaldehyde	B87	Wet Wood	Stoker	Electrolyzed Gravel Bed	2	5.23E-04
Formaldehyde	B90	Wet Wood	Dutch Oven	Mechanical Collector	1	3.91E-02
Formaldehyde	B91	Bark/Wet Wood	Stoker	ESP	1	3.83E-04
Formaldehyde	B92	Wet Wood	Stoker	ESP	1	3.25E-04
Formaldehyde	B99	Wet Wood	Dutch Oven	Mechanical Collector	1	6.49E-04
					<b>Average:</b>	<b>4.38E-03</b>
					<b>Tests:</b>	<b>48</b>
					<b>Runs:</b>	<b>59</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (ALLOTHERPLLTS Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-8 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Lead Emissions Factor Taken From Table 1.6-4**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
Lead	B08	Wet Wood	Stoker	ESP	1	2.26E-04
Lead	B100	Bark/Wet Wood	Dutch Oven	Wet Scrubber	1	6.59E-05
Lead	B101	Wet Wood	Stoker	ESP	1	2.08E-06
Lead	B107	Bark	Not Reported	Wet Scrubber	1	1.43E-04
Lead	B110	Bark	Stoker	Wet Scrubber	1	1.78E-04
Lead	B125	Wet Wood	Not Reported	ESP	1	5.49E-05
Lead	B128	Bark/Wet Wood	Not Reported	Mechanical Collector	1	2.09E-05
Lead	B131	Bark	Stoker	Wet Scrubber	1	4.98E-05
Lead	B133	Wet Wood	Stoker	Fabric Filter	1	7.36E-06
Lead	B134	Wet Wood	Stoker	ESP, Uncontrolled	2	1.18E-06
Lead	B14	Wet Wood	Not Reported	Mechanical Collector	1	3.49E-06
Lead	B15	Wet Wood	Stoker	Mechanical Collector	1	3.82E-08
Lead	B19	Dry Wood	Stoker	Mechanical Collector	1	1.44E-05
Lead	B20	Bark	Not Reported	Wet Scrubber	1	3.14E-06
Lead	B23	Wet Wood	Stoker	ESP	1	9.23E-07
Lead	B25	Wet Wood	Not Reported	Wet Scrubber	1	9.93E-06
Lead	B26	Wet Wood	Stoker	Wet Scrubber	1	3.95E-05
Lead	B30	Wet Wood	FBC	Fabric Filter	1	2.54E-06
Lead	B41	Dry Wood; Wet Wood	Stoker	Mechanical Collector	2	1.14E-05
Lead	B45	Bark	Stoker	Wet Scrubber	1	1.60E-11
Lead	B62	Wet Wood	Stoker	Fabric Filter	1	8.48E-06
Lead	B72	Wet Wood	Stoker	ESP	1	1.11E-05
Lead	B78	Wet Wood	Stoker	Wet Scrubber	1	1.66E-05
Lead	B81	Wet Wood	Dutch Oven	Mechanical Collector	1	2.84E-04
Lead	B91	Bark/Wet Wood	Stoker	ESP	1	1.47E-06
Lead	B99	Wet Wood	Dutch Oven	Mechanical Collector	1	8.37E-05
					<b>Average:</b>	<b>4.77E-05</b>
					<b>Tests:</b>	<b>26</b>
					<b>Runs:</b>	<b>28</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (ALLOTHERPLLOTS Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-9 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Mercury Emissions Factor Taken From Table 1.6-4**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
Mercury	B100	Bark/Wet Wood	Dutch Oven	Wet Scrubber	1	6.61E-07
Mercury	B101	Wet Wood	Stoker	ESP	1	3.34E-07
Mercury	B107	Bark	Not Reported	Wet Scrubber	1	4.20E-05
Mercury	B110	Bark	Stoker	Wet Scrubber	1	5.56E-07
Mercury	B12	Dry Wood	Stoker	Mechanical Collector	1	7.95E-06
Mercury	B125	Wet Wood	Not Reported	ESP	2	4.02E-07
Mercury	B133	Wet Wood	Stoker	Fabric Filter	2	2.87E-06
Mercury	B134	Wet Wood	Stoker	ESP	2	3.22E-07
Mercury	B14	Wet Wood	Not Reported	Mechanical Collector	1	5.00E-07
Mercury	B19	Dry Wood	Stoker	Mechanical Collector	1	5.00E-07
Mercury	B23	Wet Wood	Stoker	ESP	2	7.43E-07
Mercury	B26	Wet Wood	Stoker	Wet Scrubber	1	7.07E-07
Mercury	B33	Dry Wood	Not Reported	Mechanical Collector	1	5.05E-06
Mercury	B45	Bark	Stoker	Wet Scrubber	1	8.85E-13
Mercury	B62	Wet Wood	Stoker	Fabric Filter	2	6.81E-07
Mercury	B78	Wet Wood	Stoker	Wet Scrubber	1	2.23E-07
Mercury	B81	Wet Wood	Dutch Oven	Mechanical Collector	1	1.24E-06
Mercury	B91	Bark/Wet Wood	Stoker	ESP	1	2.78E-07
Mercury	B99	Wet Wood	Dutch Oven	Mechanical Collector	1	2.23E-06
					<b>Average:</b>	<b>3.54E-06</b>
					<b>Tests:</b>	<b>19</b>
					<b>Runs:</b>	<b>24</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (ALLOTHERPLLOTS Worksheet Tab), which is located in zip folder r01s06.zip



**Table B.1-10 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Nickel Emissions Factor  
Taken From Table 1.6-4**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
Nickel	B08	Wet Wood	Stoker	ESP	1	1.59E-06
Nickel	B100	Bark/Wet Wood	Dutch Oven	Wet Scrubber	1	2.88E-05
Nickel	B101	Wet Wood	Stoker	ESP	1	3.45E-06
Nickel	B108	Wet Wood	Not Reported	Uncontrolled	1	1.36E-04
Nickel	B110	Bark	Stoker	Wet Scrubber	1	6.34E-05
Nickel	B12	Dry Wood	Stoker	Mechanical Collector	1	6.20E-05
Nickel	B128	Bark/Wet Wood	Not Reported	Mechanical Collector	1	8.61E-05
Nickel	B134	Wet Wood	Stoker	ESP	1	1.30E-06
Nickel	B14	Wet Wood	Not Reported	Mechanical Collector	1	7.74E-06
Nickel	B15	Wet Wood	Stoker	Mechanical Collector	1	2.33E-08
Nickel	B19	Dry Wood	Stoker	Mechanical Collector	1	8.65E-06
Nickel	B20	Bark	Not Reported	Wet Scrubber	1	3.87E-06
Nickel	B25	Wet Wood	Not Reported	Wet Scrubber	1	2.52E-06
Nickel	B26	Wet Wood	Stoker	Wet Scrubber	1	4.02E-06
Nickel	B33	Dry Wood	Not Reported	Mechanical Collector	1	2.02E-05
Nickel	B41	Dry Wood; Wet Wood	Stoker	Mechanical Collector	2	2.62E-04
Nickel	B45	Bark	Stoker	Wet Scrubber	1	2.97E-12
Nickel	B62	Wet Wood	Stoker	Fabric Filter	1	1.22E-06
Nickel	B78	Wet Wood	Stoker	Wet Scrubber	1	5.59E-06
Nickel	B81	Wet Wood	Dutch Oven	Mechanical Collector	1	5.72E-06
Nickel	B91	Bark/Wet Wood	Stoker	ESP	1	3.77E-06
Nickel	B99	Wet Wood	Dutch Oven	Mechanical Collector	1	2.49E-05
					<b>Average:</b>	<b>3.33E-05</b>
					<b>Tests:</b>	<b>22</b>
					<b>Runs:</b>	<b>23</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (ALLOTHERPLLTS Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-11 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, NO<sub>x</sub> Emissions Factor Taken From Table 1.6-2**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
NO <sub>x</sub>	2043	Wet Wood	Dutch oven		3	0.211
NO <sub>x</sub>	2141	Wet Wood	Spreader/Stoker	Wet Scrubber	3	0.151
NO <sub>x</sub>	2154	Wet Wood	Dutch oven	Multiclone	3	0.213
NO <sub>x</sub>	2158	Wet Wood	Dutch oven	Multiclone	3	0.199
NO <sub>x</sub>	2162	Wet Wood	Dutch oven	Multiclone	3	0.136
NO <sub>x</sub>	2166	Wet Wood	Dutch oven	Multiclone	3	0.116
NO <sub>x</sub>	2260	Wet Wood	Wellons Fuel Cell	Cyclone	1	0.210
NO <sub>x</sub>	2325	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	2	0.224
NO <sub>x</sub>	2337	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	6	0.348
NO <sub>x</sub>	2356	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	6	0.130
NO <sub>x</sub>	2372	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	2	0.327
NO <sub>x</sub>	2375	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	1	0.328
NO <sub>x</sub>	2402	Wet Wood	Dutch oven	Wet Scrubber	3	0.147
NO <sub>x</sub>	2415	Wet Wood	Dutch oven	Wet Scrubber	3	0.200
NO <sub>x</sub>	2419	Wet Wood	Dutch oven	Wet Scrubber	6	0.163
NO <sub>x</sub>	2435	Wet Wood	Spreader/Stoker	Wet Scrubber	3	0.225
NO <sub>x</sub>	2439	Wet Wood	Dutch oven	Wet Scrubber	10	0.214
NO <sub>x</sub>	2450	Wet Wood	Dutch oven	Wet Scrubber	6	0.265
NO <sub>x</sub>	2458	Wet Wood	Stoker	Wet Scrubber	3	0.220
NO <sub>x</sub>	2459	Wet Wood	Stoker	Wet Scrubber	3	0.178
NO <sub>x</sub>	2633	Wet Wood	Coen		3	0.875
NO <sub>x</sub>	2641	Wet Wood	Coen		3	1.281
NO <sub>x</sub>	2689	Wet Wood	Coen		3	1.001
NO <sub>x</sub>	2696	Wet Wood	Dutch oven		12	0.279
NO <sub>x</sub>	2743	Wet Wood	Dutch oven	Multiclone	6	0.159
NO <sub>x</sub>	2750	Wet Wood	Dutch oven	Multiclone	2	0.198
NO <sub>x</sub>	3284	Wet Wood	Spreader/Stoker	Multiclone	3	0.288
NO <sub>x</sub>	3288	Wet Wood	Spreader/Stoker	Multiclone	3	0.242
NO <sub>x</sub>	3292	Wet Wood	Spreader/Stoker	Multiclone	3	0.278
NO <sub>x</sub>	3934	Wet Wood	Stoker	Multiclone	3	0.175
NO <sub>x</sub>	3950	Wet Wood	Dutch oven		3	0.167
NO <sub>x</sub>	4426	Wet Wood	Wellons Fuel Cell		3	0.233
NO <sub>x</sub>	4550	Wet Wood	Stoker	Wet Scrubber	1	0.135
NO <sub>x</sub>	4620	Wet Wood	Wellons Fuel Cell	Multiclone	3	0.140
NO <sub>x</sub>	4732	Wet Wood	Stoker	Multiclone	3	0.163
NO <sub>x</sub>	4736	Wet Wood	Stoker	Multiclone	1	0.076
NO <sub>x</sub>	4799	Wet Wood	Dutch oven	Multiclone	3	0.133
NO <sub>x</sub>	4803	Wet Wood	Dutch oven	Multiclone	3	0.133
NO <sub>x</sub>	4807	Wet Wood	Dutch oven	Multiclone	3	0.135
NO <sub>x</sub>	4811	Wet Wood	Wellons Fuel Cell	Multiclone	3	0.188

**Table B.1-11 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, NO<sub>x</sub> Emissions Factor Taken From Table 1.6-2**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
NO <sub>x</sub>	4998	Wet Wood	SpreaderStoker, fixedgrate	Multiclone	2	0.261
NO <sub>x</sub>	5041	Wet Wood	Dutch oven	Wet Scrubber	4	0.207
NO <sub>x</sub>	5163	Wet Wood	Spreader/Stoker	Wet Scrubber	3	0.143
NO <sub>x</sub>	B103	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.164
NO <sub>x</sub>	B104	Bark/Wet Wood	Dutch Oven	Uncontrolled	1	0.135
NO <sub>x</sub>	B106	Bark/Wet Wood	Stoker	Fabric Filter	1	0.250
NO <sub>x</sub>	B115	Bark/Wet Wood	Stoker	Wet Scrubber	1	0.141
NO <sub>x</sub>	B116	Bark/Wet Wood	Stoker	Wet Scrubber	9	0.282
NO <sub>x</sub>	B142	Wet Wood	Dutch Oven	Mechanical Collector	1	0.233
NO <sub>x</sub>	B147	Bark/Wet Wood	Dutch Oven	Uncontrolled	1	0.180
NO <sub>x</sub>	B15	Wet Wood	Stoker	Mechanical Collector	2	0.211
NO <sub>x</sub>	B17	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.136
NO <sub>x</sub>	B18	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.116
NO <sub>x</sub>	B28	Bark/Wet Wood	Stoker	Not Reported	1	0.118
NO <sub>x</sub>	B41	Wet Wood	Stoker	Mechanical Collector	1	0.257
NO <sub>x</sub>	B59	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.211
NO <sub>x</sub>	B74	Bark/Wet Wood	Stoker	Fabric Filter	1	0.251
NO <sub>x</sub>	B89	Bark	Stoker	Mechanical Collector	1	0.070
NO <sub>x</sub>	CTC001	Wet Wood	Not Reported	Combustion Controls	1	0.202
NO <sub>x</sub>	CTC005	Wet Wood	Spreader Stoker	None	1	0.157
NO <sub>x</sub>	CTC008	Wet Wood	Spreader Stoker	Combustion Controls	1	0.115
NO <sub>x</sub>	CTC014A	Wet Wood	Spreader Stoker	Combustion Controls	1	0.124
NO <sub>x</sub>	CTC014B	Wet Wood	Spreader Stoker	Combustion Controls	1	0.127
NO <sub>x</sub>	CTC026	Wet Wood	Spreader Stoker	None	1	0.202
NO <sub>x</sub>	CTC045	Wet Wood	Fluidized Bed	None	1	0.110
NO <sub>x</sub>	CTC052	Wet Wood	Fluidized Bed	Selective Non-Catalytic Reduction	1	0.059
NO <sub>x</sub>	CTC068A	Wet Wood	Fluidized Bed	Selective Non-Catalytic Reduction	1	0.187

**Table B.1-11 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, NO<sub>x</sub> Emissions Factor Taken From Table 1.6-2**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
NO <sub>x</sub>	CTC068B	Wet Wood	Fluidized Bed	None	1	0.193
NO <sub>x</sub>	CTC075	Wet Wood	Spreader Stoker	None	1	0.270
NO <sub>x</sub>	CTC076	Wet Wood	Fluidized Bed	None	1	0.143
NO <sub>x</sub>	CTC085	Wet Wood	Spreader Stoker	None	1	0.235
NO <sub>x</sub>	CTC095	Wet Wood	Not Reported	None	1	0.023
NO <sub>x</sub>	CTC105	Wet Wood	Spreader Stoker	None	1	0.219
NO <sub>x</sub>	CTC106	Wet Wood	Spreader Stoker	Selective Non-Catalytic Reduction	1	0.270
NO <sub>x</sub>	CTC113	Wet Wood	Spreader Stoker	Combustion Controls	1	0.165
NO <sub>x</sub>	CTC117	Wet Wood	Spreader Stoker	None	1	0.200
NO <sub>x</sub>	CTC118	Wet Wood	Spreader Stoker	None	1	0.239
NO <sub>x</sub>	CTC119	Wet Wood	Spreader Stoker	Combustion Controls	1	0.375
NO <sub>x</sub>	CTC120	Wet Wood	Spreader Stoker	None	1	0.168
NO <sub>x</sub>	CTC121	Wet Wood	Spreader Stoker	None	1	0.205
NO <sub>x</sub>	CTC122	Wet Wood	Spreader Stoker	None	1	0.192
NO <sub>x</sub>	CTC123	Wet Wood	Spreader Stoker	None	1	0.210
					<b>Average:</b>	<b>0.222</b>
					<b>Tests:</b>	<b>82</b>
					<b>Runs:</b>	<b>197</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (NOX Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-12 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Condensable PM Emissions Factor Taken From Table 1.6-1**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
PM, condensible	2141	Wet Wood	Spreader/Stoker	Wet Scrubber	3	0.004
PM, condensible	2356	Wet Wood	SpreaderStoker, fixed	Multiclone	6	0.006
PM, condensible	2383	Wet Wood	Dutch oven	Multiclone	8	0.004
PM, condensible	2392	Wet Wood	Dutch oven	Multiclone	4	0.012
PM, condensible	2419	Wet Wood	Dutch oven	Wet Scrubber	6	0.002
PM, condensible	2435	Wet Wood	Spreader/Stoker	Wet Scrubber	3	0.002
PM, condensible	2458	Wet Wood	Stoker	Wet Scrubber	3	0.005
PM, condensible	2459	Wet Wood	Stoker	Wet Scrubber	3	0.003
PM, condensible	2743	Wet Wood	Dutch oven	Multiclone	6	0.012
PM, condensible	2823	Wet Wood	Wellons Fuel Cell	Multiclone	3	0.017
PM, condensible	3284	Wet Wood	Spreader/Stoker	Multiclone	3	0.018
PM, condensible	3288	Wet Wood	Spreader/Stoker	Multiclone	3	0.224
PM, condensible	3292	Wet Wood	Spreader/Stoker	Multiclone	2	0.000
PM, condensible	4550	Wet Wood	Stoker	Wet Scrubber	2	0.013
PM, condensible	4620	Wet Wood	Wellons Fuel Cell	Multiclone	3	0.003
PM, condensible	4717	Wet Wood	Wellons Fuel Cell	Multiclone	3	0.016
PM, condensible	4732	Wet Wood	Stoker	Multiclone	3	0.041
PM, condensible	4736	Wet Wood	Stoker	Multiclone	2	0.020
PM, condensible	4739	Wet Wood	Stoker	Multiclone	2	0.015
PM, condensible	4760	Wet Wood	Wellons Fuel Cell	Multiclone	3	0.002
PM, condensible	4764	Wet Wood	Stoker	Multiclone	6	0.008
PM, condensible	4771	Wet Wood	Stoker	Multiclone	4	0.010
PM, condensible	4776	Wet Wood	Stoker	Multiclone	6	0.008
PM, condensible	4786	Wet Wood	Dutch oven	Multiclone	2	0.011
PM, condensible	4799	Wet Wood	Dutch oven	Multiclone	3	0.005
PM, condensible	4803	Wet Wood	Dutch oven	Multiclone	3	0.004
PM, condensible	4807	Wet Wood	Dutch oven	Multiclone	3	0.006
PM, condensible	4811	Wet Wood	Wellons Fuel Cell	Multiclone	3	0.007
PM, condensible	4998	Wet Wood	SpreaderStoker, fixed	Multiclone	3	0.013
PM, condensible	5009	Wet Wood	Stoker	Multiclone	3	0.005
PM, condensible	5013	Wet Wood	Stoker	Multiclone	2	0.007
PM, condensible	5016	Wet Wood	Stoker	Multiclone	3	0.001
PM, condensible	5026	Wet Wood	Stoker	Multiclone	2	0.013
PM, condensible	5029	Wet Wood	Stoker	Multiclone	2	0.014
PM, condensible	5037	Wet Wood	Dutch oven	Wet Scrubber	3	0.011
PM, condensible	5041	Wet Wood	Dutch oven	Wet Scrubber	4	0.009
PM, condensible	5046	Wet Wood	Dutch oven	Wet Scrubber	3	0.010
PM, condensible	5058	Wet Wood	Dutch oven	Wet Scrubber	4	0.012
PM, condensible	5074	Wet Wood	Dutch oven	Wet Scrubber	4	0.009
PM, condensible	5083	Wet Wood	Dutch oven	Wet Scrubber	2	0.033
PM, condensible	5086	Wet Wood	Dutch oven	Wet Scrubber	2	0.032
PM, condensible	5089	Wet Wood	Dutch oven	Wet Scrubber	4	0.008
PM, condensible	5094	Wet Wood	Dutch oven	Wet Scrubber	2	0.018
PM, condensible	5097	Wet Wood	Dutch oven	Wet Scrubber	2	0.009
PM, condensible	5100	Wet Wood	Dutch oven	Wet Scrubber	3	0.009
PM, condensible	5104	Wet Wood	Dutch oven	Wet Scrubber	3	0.008
PM, condensible	5127	Wet Wood	Dutch oven	Wet Scrubber	3	0.001
PM, condensible	5131	Wet Wood	Dutch oven	Wet Scrubber	3	0.002
PM, condensible	5163	Wet Wood	Spreader/Stoker	Wet Scrubber	2	0.011

**Table B.1-12 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Condensible PM Emissions Factor Taken From Table 1.6-1**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
PM, condensible	5168	Wet Wood	Stoker	Wet Scrubber	3	0.005
PM, condensible	5176	Wet Wood	Stoker	Wet Scrubber	1	0.011
PM, condensible	B01	Dry Wood	Stoker	Uncontrolled	1	0.014
PM, condensible	B06	Wet Wood	Stoker	Uncontrolled	1	0.080
PM, condensible	B100	Bark/Wet Wood	Dutch Oven	Wet Scrubber	1	0.087
PM, condensible	B103	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.010
PM, condensible	B104	Bark/Wet Wood	Dutch Oven	Uncontrolled	1	0.036
PM, condensible	B106	Bark/Wet Wood	Stoker	Fabric Filter	1	0.010
PM, condensible	B11	Dry Wood	Not Reported	Uncontrolled	1	0.002
PM, condensible	B116	Bark/Wet Wood	Stoker	Wet Scrubber	9	0.007
PM, condensible	B134	Wet Wood	Stoker	ESP	1	0.010
PM, condensible	B14	Wet Wood	Not Reported	Mechanical Collector	1	0.110
PM, condensible	B142	Wet Wood	Dutch Oven	Mechanical Collector	1	0.007
PM, condensible	B146	Dry Wood	Not Reported	Uncontrolled	1	0.040
PM, condensible	B147	Bark/Wet Wood	Dutch Oven	Uncontrolled	1	0.009
PM, condensible	B17	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.008
PM, condensible	B18	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.013
PM, condensible	B19	Dry Wood	Stoker	Mechanical Collector	1	0.027
PM, condensible	B26	Wet Wood	Stoker	Wet Scrubber	1	0.002
PM, condensible	B28	Bark/Wet Wood	Stoker	Not Reported	1	0.004
PM, condensible	B32	Dry Wood	Stoker	Uncontrolled	1	0.019
PM, condensible	B38	Dry Wood	Stoker	Not Reported	2	0.004
PM, condensible	B40	Dry Wood	Stoker	Mechanical Collector	1	0.005
PM, condensible	B45	Bark	Stoker	Wet Scrubber	2	0.013
PM, condensible	B51	Wet Wood	Not Reported	Not Reported	1	0.033
PM, condensible	B59	Bark/Wet Wood	Dutch Oven	Mechanical Collector	1	0.015
PM, condensible	B64	Dry Wood	Not Reported	Not Reported	1	0.007
PM, condensible	B65	Dry Wood	Not Reported	Not Reported	1	0.028
PM, condensible	B66	Dry Wood	Not Reported	Fabric Filter	3	0.024
PM, condensible	B66	Dry Wood	Not Reported	Mechanical Collector	3	0.017
PM, condensible	B73	Bark	Stoker	Electrolyzed Gravel Bed	1	0.006
PM, condensible	B74	Bark/Wet Wood	Stoker	Fabric Filter	1	0.007
PM, condensible	B75	Wet Wood	Not Reported	Mechanical Collector	3	0.006
PM, condensible	B81	Wet Wood	Dutch Oven	Mechanical Collector	1	0.014
PM, condensible	B82	Bark	FBC	Mechanical Collector	2	0.029
PM, condensible	B83	Bark/Wet Wood	Stoker	Uncontrolled	1	0.018

**Table B.1-12 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Condensible PM Emissions Factor Taken From Table 1.6-1**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
PM, condensible	B84	Bark/Wet Wood	Stoker	Uncontrolled	2	0.041
PM, condensible	B86	Bark/Wet Wood	FBC	ESP	1	0.017
PM, condensible	B91	Bark/Wet Wood	Stoker	ESP	1	0.012
PM, condensible	B99	Wet Wood	Dutch Oven	Mechanical Collector	1	0.016
					<b>Average:</b>	<b>0.017</b>
					<b>Tests:</b>	<b>89</b>
					<b>Runs:</b>	<b>220</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (PMCOND Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-13 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Filterable PM Emissions Factor Taken From Table 1.6-1**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
PM, filterable	2633	Wet Wood	Coen	Uncontrolled	3	0.149
PM, filterable	2641	Wet Wood	Coen	Uncontrolled	3	0.118
PM, filterable	2689	Wet Wood	Coen	Uncontrolled	2	0.165
PM, filterable	2696	Wet Wood	Dutch oven	Uncontrolled	6	0.501
PM, filterable	3950	Wet Wood	Dutch oven	Uncontrolled	3	0.277
PM, filterable	4426	Wet Wood	Wellons Fuel Cell	Uncontrolled	3	0.133
PM, filterable	4686	Wet Wood	Spreader/Stoker	Uncontrolled	2	0.460
PM, filterable	4712	Wet Wood	Dutch oven	Uncontrolled	4	0.207
PM, filterable	4721	Wet Wood	Dutch oven	Uncontrolled	2	0.448
PM, filterable	4970	Wet Wood	Dutch oven	Uncontrolled	2	0.189
PM, filterable	4985	Wet Wood	Stoker	Uncontrolled	2	0.172
PM, filterable	B06	Wet Wood	Stoker	Uncontrolled	1	0.182
PM, filterable	B108	Wet Wood	Not Reported	Uncontrolled	1	0.315
PM, filterable	B120	Wet Wood	Not Reported	Uncontrolled	1	0.550
PM, filterable	B136	Wet Wood	Stoker	Uncontrolled	1	0.624
PM, filterable	B46	Wet Wood	Not Reported	Uncontrolled	5	0.442
PM, filterable	B50	Wet Wood	FBC	Uncontrolled	2	0.611
					<b>Average:</b>	<b>0.326</b>
					<b>Tests:</b>	<b>17</b>
					<b>Runs:</b>	<b>43</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (PMFILTER\_UNC Worksheet Tab), which is located in zip folder r01s06.zip



**Table B.1-14 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Filterable PM Emissions Factor Taken From Table 1.6-1**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
PM, filterable	B01	Dry Wood	Stoker	Uncontrolled	1	0.181
PM, filterable	B11	Dry Wood	Not Reported	Uncontrolled	1	0.423
PM, filterable	B111	Dry Wood	Stoker	Uncontrolled	1	0.245
PM, filterable	B112	Dry Wood	Stoker	Uncontrolled	1	0.369
PM, filterable	B113	Dry Wood	Stoker	Uncontrolled	1	0.331
PM, filterable	B114	Dry Wood	Stoker	Uncontrolled	1	0.267
PM, filterable	B12	Dry Wood	Stoker	Uncontrolled	2	0.734
PM, filterable	B13	Dry Wood	Stoker	Uncontrolled	4	0.844
PM, filterable	B146	Dry Wood	Not Reported	Uncontrolled	1	0.316
PM, filterable	B21	Dry Wood	Stoker	Uncontrolled	2	0.286
PM, filterable	B22	Dry Wood	Stoker	Uncontrolled	1	0.234
PM, filterable	B32	Dry Wood	Stoker	Uncontrolled	1	0.389
PM, filterable	B36	Dry Wood	Stoker	Uncontrolled	1	0.440
PM, filterable	B38	Dry Wood	Stoker	Not Reported	3	0.506
PM, filterable	B43	Dry Wood	Stoker	Uncontrolled	1	0.467
					<b>Average:</b>	<b>0.402</b>
					<b>Tests:</b>	<b>15</b>
					<b>Runs:</b>	<b>22</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (PMFILTER\_UNC Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-15 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Filterable PM Emissions Factor Taken From Table 1.6-1**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
PM, filterable	2141	Wet Wood	Spreader/Stoker	Wet Scrubber	3	0.079
PM, filterable	2419	Wet Wood	Dutch oven	Wet Scrubber	6	0.046
PM, filterable	2426	Wet Wood	Dutch oven	Wet Scrubber	8	0.054
PM, filterable	2435	Wet Wood	Spreader/Stoker	Wet Scrubber	3	0.076
PM, filterable	2458	Wet Wood	Stoker	Wet Scrubber	3	0.068
PM, filterable	2459	Wet Wood	Stoker	Wet Scrubber	3	0.067
PM, filterable	4550	Wet Wood	Stoker	Wet Scrubber	2	0.047
PM, filterable	5037	Wet Wood	Dutch oven	Wet Scrubber	3	0.045
PM, filterable	5041	Wet Wood	Dutch oven	Wet Scrubber	4	0.071
PM, filterable	5046	Wet Wood	Dutch oven	Wet Scrubber	3	0.047
PM, filterable	5058	Wet Wood	Dutch oven	Wet Scrubber	4	0.070
PM, filterable	5074	Wet Wood	Dutch oven	Wet Scrubber	4	0.072
PM, filterable	5083	Wet Wood	Dutch oven	Wet Scrubber	2	0.036
PM, filterable	5086	Wet Wood	Dutch oven	Wet Scrubber	2	0.051
PM, filterable	5089	Wet Wood	Dutch oven	Wet Scrubber	4	0.065
PM, filterable	5094	Wet Wood	Dutch oven	Wet Scrubber	2	0.048
PM, filterable	5097	Wet Wood	Dutch oven	Wet Scrubber	2	0.043
PM, filterable	5100	Wet Wood	Dutch oven	Wet Scrubber	3	0.099
PM, filterable	5104	Wet Wood	Dutch oven	Wet Scrubber	3	0.099
PM, filterable	5127	Wet Wood	Dutch oven	Wet Scrubber	3	0.079
PM, filterable	5131	Wet Wood	Dutch oven	Wet Scrubber	3	0.084
PM, filterable	5163	Wet Wood	Spreader/Stoker	Wet Scrubber	2	0.065
PM, filterable	5168	Wet Wood	Stoker	Wet Scrubber	3	0.065
PM, filterable	5176	Wet Wood	Stoker	Wet Scrubber	1	0.060
PM, filterable	B100	Bark/Wet Wood	Dutch Oven	Wet Scrubber	2	0.052
PM, filterable	B107	Bark	Not Reported	Wet Scrubber	1	0.068
PM, filterable	B109	Bark/Wet Wood	Not Reported	Wet Scrubber	1	0.080
PM, filterable	B116	Bark/Wet Wood	Stoker	Wet Scrubber	9	0.092
PM, filterable	B131	Bark	Stoker	Wet Scrubber	1	0.079
PM, filterable	B20	Bark	Not Reported	Wet Scrubber	2	0.131
PM, filterable	B26	Wet Wood	Stoker	Wet Scrubber	1	0.031
PM, filterable	B45	Bark	Stoker	Wet Scrubber	2	0.055
					<b>Average:</b>	<b>0.066</b>
					<b>Tests:</b>	<b>32</b>
					<b>Runs:</b>	<b>95</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (PMFILTER\_WS Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-16 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Filterable PM Emissions Factor Taken From Table 1.6-1**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
PM, filterable	2356	Wet Wood	SpreaderStoker, fixedgrate	Mechanical Collector	6	0.068
PM, filterable	2383	Wet Wood	Dutch oven	Mechanical Collector	8	0.109
PM, filterable	2392	Wet Wood	Dutch oven	Mechanical Collector	4	0.095
PM, filterable	2743	Wet Wood	Dutch oven	Mechanical Collector	6	0.230
PM, filterable	2823	Wet Wood	Wellons Fuel Cell	Mechanical Collector	3	0.197
PM, filterable	3284	Wet Wood	Spreader/Stoker	Mechanical Collector	4	0.031
PM, filterable	3288	Wet Wood	Spreader/Stoker	Mechanical Collector	3	0.535
PM, filterable	3292	Wet Wood	Spreader/Stoker	Mechanical Collector	2	0.002
PM, filterable	4620	Wet Wood	Wellons Fuel Cell	Mechanical Collector	3	0.102
PM, filterable	4717	Wet Wood	Wellons Fuel Cell	Mechanical Collector	3	0.039
PM, filterable	4732	Wet Wood	Stoker	Mechanical Collector	3	0.270
PM, filterable	4736	Wet Wood	Stoker	Mechanical Collector	2	0.049
PM, filterable	4739	Wet Wood	Stoker	Mechanical Collector	2	0.201
PM, filterable	4760	Wet Wood	Wellons Fuel Cell	Mechanical Collector	3	0.059
PM, filterable	4764	Wet Wood	Stoker	Mechanical Collector	6	0.082
PM, filterable	4771	Wet Wood	Stoker	Mechanical Collector	4	0.092
PM, filterable	4776	Wet Wood	Stoker	Mechanical Collector	6	0.088
PM, filterable	4786	Wet Wood	Dutch oven	Mechanical Collector	2	0.381
PM, filterable	4799	Wet Wood	Dutch oven	Mechanical Collector	3	0.167
PM, filterable	4803	Wet Wood	Dutch oven	Mechanical Collector	3	0.139
PM, filterable	4807	Wet Wood	Dutch oven	Mechanical Collector	3	0.123
PM, filterable	4811	Wet Wood	Wellons Fuel Cell	Mechanical Collector	3	0.104
PM, filterable	4998	Wet Wood	SpreaderStoker, fixedgrate	Mechanical Collector	3	0.060
PM, filterable	5009	Wet Wood	Stoker	Mechanical Collector	3	0.069
PM, filterable	5013	Wet Wood	Stoker	Mechanical Collector	2	0.050
PM, filterable	5016	Wet Wood	Stoker	Mechanical Collector	3	0.056
PM, filterable	5026	Wet Wood	Stoker	Mechanical Collector	2	0.053
PM, filterable	5029	Wet Wood	Stoker	Mechanical Collector	2	0.055
PM, filterable	B128	Wet Wood	Not Reported	Mechanical Collector	2	1.050
PM, filterable	B138	Wet Wood	Not Reported	Mechanical Collector	2	0.169
PM, filterable	B139	Wet Wood	Stoker	Mechanical Collector	1	0.012
PM, filterable	B14	Wet Wood	Not Reported	Mechanical Collector	1	0.151
PM, filterable	B140	Wet Wood	Stoker	Mechanical Collector	1	0.015
PM, filterable	B142	Wet Wood	Dutch Oven	Mechanical Collector	1	0.190
PM, filterable	B15	Wet Wood	Stoker	Mechanical Collector	3	0.320
PM, filterable	B37	Wet Wood	Stoker	Mechanical Collector	1	0.438
PM, filterable	B41	Wet Wood	Stoker	Mechanical Collector	2	0.558
PM, filterable	B50	Wet Wood	FBC	Mechanical Collector	2	0.521
PM, filterable	B75	Wet Wood	Not Reported	Mechanical Collector	3	0.229
PM, filterable	B81	Wet Wood	Dutch Oven	Mechanical Collector	2	1.895
PM, filterable	B98	Wet Wood	Stoker	Mechanical Collector	1	0.360
PM, filterable	B99	Wet Wood	Dutch Oven	Mechanical Collector	1	0.0001
					<b>Average:</b>	<b>0.224</b>
					<b>Tests:</b>	<b>42</b>
					<b>Runs:</b>	<b>120</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (PMFILTER\_MC Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-17 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, Filterable PM Emissions Factor Taken From Table 1.6-1**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
PM, filterable	B05	Dry Wood	Stoker	Mechanical Collector	1	0.625
PM, filterable	B10	Dry Wood	Stoker	Mechanical Collector	1	0.288
PM, filterable	B105	Dry Wood	Stoker	Mechanical Collector	1	0.250
PM, filterable	B12	Dry Wood	Stoker	Mechanical Collector	2	0.336
PM, filterable	B123	Dry Wood	Stoker	Mechanical Collector	1	0.125
PM, filterable	B124	Dry Wood	Stoker	Mechanical Collector	1	0.146
PM, filterable	B126	Dry Wood	Not Reported	Mechanical Collector	1	0.253
PM, filterable	B13	Dry Wood	Stoker	Mechanical Collector	4	0.426
PM, filterable	B144	Dry Wood	Stoker	Mechanical Collector	1	0.225
PM, filterable	B19	Dry Wood	Stoker	Mechanical Collector	1	0.227
PM, filterable	B21	Dry Wood	Stoker	Mechanical Collector	2	0.322
PM, filterable	B34	Dry Wood	Stoker	Mechanical Collector	1	0.621
PM, filterable	B35	Dry Wood	Stoker	Mechanical Collector	1	0.456
PM, filterable	B40	Dry Wood	Stoker	Mechanical Collector	1	0.257
PM, filterable	B41	Dry Wood	Stoker	Mechanical Collector	2	0.438
PM, filterable	B42	Dry Wood	Stoker	Mechanical Collector	1	0.225
PM, filterable	B44	Dry Wood	Stoker	Mechanical Collector	1	0.190
PM, filterable	B52	Dry Wood	Stoker	Mechanical Collector	1	0.409
PM, filterable	B53	Dry Wood	Not Reported	Mechanical Collector	1	0.441
PM, filterable	B54	Dry Wood	Stoker	Mechanical Collector	1	0.224
PM, filterable	B55	Dry Wood	Stoker	Mechanical Collector	1	0.159
PM, filterable	B56	Dry Wood	Stoker	Mechanical Collector	1	0.367
PM, filterable	B57	Dry Wood	Stoker	Mechanical Collector	1	0.367
PM, filterable	B58	Dry Wood	Dutch Oven	Mechanical Collector	1	0.297
PM, filterable	B66	Dry Wood	Not Reported	Mechanical Collector	3	0.392
PM, filterable	B67	Dry Wood	Stoker	Mechanical Collector	1	0.178
PM, filterable	B68	Dry Wood	Stoker	Mechanical Collector	1	0.253
PM, filterable	B69	Dry Wood	Stoker	Mechanical Collector	1	0.216
PM, filterable	B70	Dry Wood	Not Reported	Mechanical Collector	1	0.177
PM, filterable	B71	Dry Wood	Stoker	Mechanical Collector	1	0.225
					<b>Average:</b>	<b>0.304</b>
					<b>Tests:</b>	<b>30</b>
					<b>Runs:</b>	<b>38</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (PMFILTER\_MC Worksheet Tab), which is located in zip folder r01s06.zip

**Table B.1-18 AP-42 Chapter 1.6 - Wood Residue Combustion in Boilers, SO<sub>2</sub> Emissions Factor  
Taken From Table 1.6-2**

POLLUTANT	ID	FUEL TYPE	FIRING CONFIGURATION	CONTROL DEVICE	NUMBER OF RUNS	RUN AVERAGE
SO <sub>2</sub>	3284	Wet Wood	Spreader/Stoker	Multiclone	3	0.049
SO <sub>2</sub>	3288	Wet Wood	Spreader/Stoker	Multiclone	3	0.017
SO <sub>2</sub>	3292	Wet Wood	Spreader/Stoker	Multiclone	3	0.126
SO <sub>2</sub>	B05	Dry Wood	Stoker	Mechanical Collector	1	0.005
SO <sub>2</sub>	B08	Wet Wood	Stoker	ESP	2	0.119
SO <sub>2</sub>	B109	Bark/Wet Wood	Not Reported	Wet Scrubber	1	0.001
SO <sub>2</sub>	B125	Wet Wood	Not Reported	ESP	2	0.023
SO <sub>2</sub>	B127	Wet Wood	Not Reported	ESP	3	0.001
SO <sub>2</sub>	B132	Wet Wood	Stoker	Fabric Filter	1	0.001
SO <sub>2</sub>	B133	Wet Wood	Stoker	Fabric Filter	1	0.013
SO <sub>2</sub>	B134	Wet Wood	Stoker	ESP	2	0.003
SO <sub>2</sub>	B23	Wet Wood	Stoker	ESP	1	0.028
SO <sub>2</sub>	B27	Wet Wood	Not Reported	Uncontrolled	1	0.001
SO <sub>2</sub>	B42	Dry Wood	Stoker	Mechanical Collector	1	0.033
SO <sub>2</sub>	B47	Wet Wood	Not Reported	Fabric Filter	1	0.039
SO <sub>2</sub>	B48	Wet Wood	Not Reported	Fabric Filter	1	0.024
SO <sub>2</sub>	B62	Wet Wood	Stoker	Fabric Filter	2	0.124
SO <sub>2</sub>	B72	Wet Wood	Stoker	ESP	1	0.008
SO <sub>2</sub>	B87	Wet Wood	Stoker	Electrolyzed Gravel Bed	1	0.005
SO <sub>2</sub>	CTC001	Wet Wood	Not Reported	Multiclone/Wet Scrubber	1	0.005
SO <sub>2</sub>	CTC008	Wet Wood	Spreader Stoker	Combustion Controls	1	0.001
SO <sub>2</sub>	CTC052	Wet Wood	Fluidized Bed	Selective Non-Catalytic Reduction	1	0.002
SO <sub>2</sub>	CTC056	Wet Wood	Fluidized Bed	Selective Non-Catalytic Reduction	1	0.005
SO <sub>2</sub>	CTC057	Wet Wood	Fluidized Bed	None	1	0.047
SO <sub>2</sub>	CTC095	Wet Wood	Not Reported	None	1	0.007
SO <sub>2</sub>	CTC105	Wet Wood	Spreader Stoker	None	1	0.005
SO <sub>2</sub>	CTC106	Wet Wood	Spreader Stoker	Selective Non-Catalytic Reduction	1	0.002
SO <sub>2</sub>	CTC121	Wet Wood	Spreader Stoker	None	1	0.000
					<b>Average:</b>	<b>2.48E-02</b>
					<b>Tests:</b>	<b>28</b>
					<b>Runs:</b>	<b>40</b>

Emission Factor Units: lb/MMBtu

The above data is from file Sec1\_6\_data\_sum.xls (SO2 Worksheet Tab), which is located in zip folder r01s06.zip

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## **Appendix B.2**

### **Refuse Combustion**

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**Table B.2-1 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Arsenic Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from ug/dscm to lb/ton:				0.0000806		
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Commerce	MB/WW	SD/FF	As	5.00E-02	µg/dscm	4.03E-07
Commerce	MB/WW	SD/FF	As	1.50E-01	µg/dscm	1.21E-06
Stanislaus County	MB/WW	SD/FF	As	1.59E+00	µg/dscm	1.28E-05
Stanislaus County	MB/WW	SD/FF	As	7.50E-01	µg/dscm	6.05E-06
Delaware (Unit 1)	MB/RC	SD/FF	As	1.63E-01	µg/dscm	1.32E-06
Delaware (Unit 2)	MB/RC	SD/FF	As	2.53E-01	µg/dscm	2.04E-06
Delaware (Unit 3)	MB/RC	SD/FF	As	1.93E-01	µg/dscm	1.56E-06
Delaware (Unit 4)	MB/RC	SD/FF	As	2.23E-01	µg/dscm	1.80E-06
Delaware (Unit 5)	MB/RC	SD/FF	As	3.43E-01	µg/dscm	2.76E-06
Delaware (Unit 6)	MB/RC	SD/FF	As	1.73E-01	µg/dscm	1.39E-06
Delaware (Unit 1)	MB/RC	SD/FF	As	2.60E-01	µg/dscm	2.10E-06
Delaware (Unit 2)	MB/RC	SD/FF	As	2.77E-01	µg/dscm	2.23E-06
Delaware (Unit 3)	MB/RC	SD/FF	As	2.50E-01	µg/dscm	2.02E-06
Delaware (Unit 4)	MB/RC	SD/FF	As	2.80E-01	µg/dscm	2.26E-06
Delaware (Unit 5)	MB/RC	SD/FF	As	2.57E-01	µg/dscm	2.07E-06
Delaware (Unit 6)	MB/RC	SD/FF	As	2.37E-01	µg/dscm	1.91E-06
York (Unit 1)	MB/RC	SD/FF	As	4.10E-01	µg/dscm	3.30E-06
York (Unit 2)	MB/RC	SD/FF	As	7.03E-01	µg/dscm	5.67E-06
York (Unit 3)	MB/RC	SD/FF	As	4.10E-01	µg/dscm	3.30E-06
York (Unit 1)	MB/RC	SD/FF	As	6.23E-01	µg/dscm	5.02E-06
York (Unit 2)	MB/RC	SD/FF	As	2.00E-01	µg/dscm	1.61E-06
York (Unit 3)	MB/RC	SD/FF	As	4.83E-01	µg/dscm	3.90E-06
York (Unit 1)	MB/RC	SD/FF	As	3.33E-01	µg/dscm	2.69E-06
York (Unit 2)	MB/RC	SD/FF	As	2.07E-01	µg/dscm	1.67E-06
York (Unit 3)	MB/RC	SD/FF	As	2.50E-01	µg/dscm	2.02E-06
York (Unit 1)	MB/RC	SD/FF	As	1.09E+00	µg/dscm	8.76E-06
York (Unit 2)	MB/RC	SD/FF	As	3.67E-01	µg/dscm	2.96E-06
York (Unit 3)	MB/RC	SD/FF	As	5.17E-01	µg/dscm	4.16E-06
York (Unit 1)	MB/RC	SD/FF	As	9.83E-01	µg/dscm	7.93E-06
York (Unit 1)	MB/RC	SD/FF	As	1.70E+00	µg/dscm	1.37E-05
York (Unit 2)	MB/RC	SD/FF	As	6.03E-01	µg/dscm	4.86E-06
York (Unit 3)	MB/RC	SD/FF	As	5.90E-01	µg/dscm	4.76E-06
York (Unit 1)	MB/RC	SD/FF	As	4.67E-01	µg/dscm	3.76E-06
York (Unit 2)	MB/RC	SD/FF	As	5.67E-01	µg/dscm	4.57E-06
York (Unit 3)	MB/RC	SD/FF	As	6.60E-01	µg/dscm	5.32E-06
			<b>Average:</b>	<b>4.75E-01</b>	<b>Average:</b>	<b>3.82E-06</b>

**4 Facilities  
35 Tests**

The above data is from files TABLE4-1.WK1 and TABLE4-2.WK1, which are located in zip folder B02s01.zip.

**Table B.2-2 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Cadmium Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from ug/dscm to lb/ton:					0.0000806	
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Adirondack (Boiler A)	MB/WW	SD/ESP	Cd	1.90E+00	µg/dscm	1.53E-05
Adirondack (Boiler B)	MB/WW	SD/ESP	Cd	5.21E+00	µg/dscm	4.20E-05
Adirondack (Boiler B)	MB/WW	SD/ESP	Cd	1.03E+00	µg/dscm	8.27E-06
Camden (Unit 1)	MB/WW	SD/ESP	Cd	6.18E+00	µg/dscm	4.98E-05
Charleston (Unit A)	MB/WW	SD/ESP	Cd	5.83E+00	µg/dscm	4.70E-05
Charleston (Unit B)	MB/WW	SD/ESP	Cd	5.02E+00	µg/dscm	4.05E-05
Haverhill	MB/WW	SD/ESP	Cd	3.80E+01	µg/dscm	3.06E-04
Haverhill	MB/WW	SD/ESP	Cd	1.80E+01	µg/dscm	1.45E-04
Haverhill	MB/WW	SD/ESP	Cd	1.00E+01	µg/dscm	8.06E-05
Millbury	MB/WW	SD/ESP	Cd	1.30E+01	µg/dscm	1.05E-04
Millbury	MB/WW	SD/ESP	Cd	2.20E+01	µg/dscm	1.77E-04
Millbury	MB/WW	SD/ESP	Cd	3.20E+01	µg/dscm	2.58E-04
Millbury	MB/WW	SD/ESP	Cd	6.00E+00	µg/dscm	4.84E-05
Millbury	MB/WW	SD/ESP	Cd	1.80E+01	µg/dscm	1.45E-04
Millbury	MB/WW	SD/ESP	Cd	7.00E+00	µg/dscm	5.64E-05
Millbury	MB/WW	SD/ESP	Cd	1.10E+01	µg/dscm	8.87E-05
Portland	MB/WW	SD/ESP	Cd	4.00E+00	µg/dscm	3.22E-05
Portland	MB/WW	SD/ESP	Cd	4.00E+00	µg/dscm	3.22E-05
			<b>Average:</b>	<b>1.16E+01</b>	<b>Average:</b>	<b>9.32E-05</b>

**6 Facilities**

**18 Tests**

The above data is from file TABLE4-1.WK1, which is located in zip folder B02s01.zip.

**Table B.2-3 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Carbon Monoxide Emissions Factor Taken From Table 2.1-4**

Conversion Factor to convert from ppmv to lb/ton:				0.0094		
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Adirondack (Boiler A)	MB/WW	NA	CO	8.39E+01	ppmv	7.89E-01
Adirondack (Boiler B)	MB/WW	NA	CO	8.50E+01	ppmv	7.99E-01
Adirondack (Boiler B)	MB/WW	NA	CO	4.34E+01	ppmv	4.08E-01
Alexandria	MB/WW	NA	CO	1.80E+01	ppmv	1.69E-01
Camden (Unit 1)	MB/WW	NA	CO	1.50E+01	ppmv	1.41E-01
Camden (Unit 2)	MB/WW	NA	CO	4.18E+01	ppmv	3.93E-01
Camden (Unit 3)	MB/WW	NA	CO	1.68E+01	ppmv	1.58E-01
Chicago	MB/WW	NA	CO	2.15E+02	ppmv	2.02E+00
Claremont	MB/WW	NA	CO	5.50E+01	ppmv	5.17E-01
Commerce	MB/WW	NA	CO	5.00E+01	ppmv	4.70E-01
Commerce	MB/WW	NA	CO	1.60E+01	ppmv	1.50E-01
Commerce	MB/WW	NA	CO	2.20E+01	ppmv	2.07E-01
Hampton	MB/WW	NA	CO	2.40E+01	ppmv	2.26E-01
Long Beach	MB/WW	NA	CO	1.18E+02	ppmv	1.11E+00
Marion County	MB/WW	NA	CO	1.80E+01	ppmv	1.69E-01
Millbury	MB/WW	NA	CO	3.80E+01	ppmv	3.57E-01
North Andover	MB/WW	NA	CO	4.30E+01	ppmv	4.04E-01
Pinellas County	MB/WW	NA	CO	4.00E+00	ppmv	3.76E-02
Portland, ME, North Unit	MB/WW	NA	CO	4.10E+01	ppmv	3.85E-01
Portland, ME, South Unit	MB/WW	NA	CO	7.50E+01	ppmv	7.05E-01
Quebec City	MB/WW	NA	CO	8.20E+01	ppmv	7.71E-01
Quebec City	MB/WW	NA	CO	3.50E+01	ppmv	3.29E-01
Quebec City	MB/WW	NA	CO	3.10E+01	ppmv	2.91E-01
Quebec City	MB/WW	NA	CO	2.90E+01	ppmv	2.73E-01
Quebec City	MB/WW	NA	CO	2.80E+01	ppmv	2.63E-01
Quebec City	MB/WW	NA	CO	5.00E+01	ppmv	4.70E-01
Quebec City	MB/WW	NA	CO	2.10E+01	ppmv	1.97E-01
Quebec City	MB/WW	NA	CO	4.60E+01	ppmv	4.32E-01
Quebec City	MB/WW	NA	CO	2.00E+01	ppmv	1.88E-01
Saugus	MB/WW	NA	CO	4.00E+01	ppmv	3.76E-01
Tulsa	MB/WW	NA	CO	2.20E+01	ppmv	2.07E-01

**Table B.2-3 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Carbon Monoxide Emissions Factor Taken From Table 2.1-4**

Conversion Factor to convert from ppmv to lb/ton:					0.0094	
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Westchester County	MB/WW	NA	CO	7.00E+00	ppmv	6.58E-02
Westchester County	MB/WW	NA	CO	2.10E+01	ppmv	1.97E-01
Westchester County	MB/WW	NA	CO	3.60E+01	ppmv	3.38E-01
Westchester County	MB/WW	NA	CO	2.40E+01	ppmv	2.26E-01
			<b>Average:</b>	<b>4.33E+01</b>	<b>Average:</b>	<b>4.07E-01</b>

**17 Facilities**

**35 Tests**

The above data is from file TABLE4-1.WK1, which is located in zip folder B02s01.zip.

**Table B.2-4 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Hydrogen Chloride Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from ppmv to lb/ton:					1.23E-02	
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Adirondack (Boiler A)	MB/WW	Uncontrolled	HCl	8.67E+02	ppmv	1.07E+01
Adirondack (Boiler B)	MB/WW	Uncontrolled	HCl	7.06E+02	ppmv	8.68E+00
Adirondack (Boiler B)	MB/WW	Uncontrolled	HCl	6.24E+02	ppmv	7.68E+00
Babylon	MB/WW	Uncontrolled	HCl	7.62E+02	ppmv	9.37E+00
Babylon	MB/WW	Uncontrolled	HCl	7.17E+02	ppmv	8.82E+00
Babylon	MB/WW	Uncontrolled	HCl	1.02E+03	ppmv	1.25E+01
Camden (Unit 1)	MB/WW	Uncontrolled	HCl	3.28E+02	ppmv	4.03E+00
Camden (Unit 2)	MB/WW	Uncontrolled	HCl	1.41E+02	ppmv	1.73E+00
Camden (Unit 3)	MB/WW	Uncontrolled	HCl	5.47E+01	ppmv	6.73E-01
Claremont	MB/WW	Uncontrolled	HCl	4.50E+02	ppmv	5.54E+00
Claremont (Unit 1)	MB/WW	Uncontrolled	HCl	4.48E+02	ppmv	5.51E+00
Claremont (Unit 1)	MB/WW	Uncontrolled	HCl	7.88E+02	ppmv	9.69E+00
Claremont (Unit 2)	MB/WW	Uncontrolled	HCl	6.42E+02	ppmv	7.90E+00
Commerce	MB/WW	Uncontrolled	HCl	5.33E+02	ppmv	6.56E+00
Commerce	MB/WW	Uncontrolled	HCl	6.46E+02	ppmv	7.95E+00
Commerce	MB/WW	Uncontrolled	HCl	8.95E+02	ppmv	1.10E+01
Marion County	MB/WW	Uncontrolled	HCl	5.71E+02	ppmv	7.02E+00
Marion County	MB/WW	Uncontrolled	HCl	6.46E+02	ppmv	7.95E+00
Marion County (1986)	MB/WW	Uncontrolled	HCl	5.70E+02	ppmv	7.01E+00
Marion County (1987)	MB/WW	Uncontrolled	HCl	6.80E+02	ppmv	8.36E+00
Millbury	MB/WW	Uncontrolled	HCl	6.97E+02	ppmv	8.57E+00
Millbury	MB/WW	Uncontrolled	HCl	7.70E+02	ppmv	9.47E+00
Millbury (Unit 1)	MB/WW	Uncontrolled	HCl	7.70E+02	ppmv	9.47E+00
Millbury (Unit 2)	MB/WW	Uncontrolled	HCl	7.30E+02	ppmv	8.98E+00
Vancouver	MB/WW	Uncontrolled	HCl	2.70E+02	ppmv	3.32E+00
Vancouver	MB/WW	Uncontrolled	HCl	2.38E+02	ppmv	2.93E+00
Vancouver	MB/WW	Uncontrolled	HCl	1.94E+02	ppmv	2.39E+00
Dayton	MB/REF	Uncontrolled	HCl	1.11E+02	ppmv	1.37E+00
Dayton	MB/REF	Uncontrolled	HCl	1.87E+02	ppmv	2.30E+00
Dayton	MB/REF	Uncontrolled	HCl	1.26E+02	ppmv	1.55E+00
Dayton	MB/REF	Uncontrolled	HCl	2.00E+02	ppmv	2.46E+00
Dayton	MB/REF	Uncontrolled	HCl	9.40E+01	ppmv	1.16E+00
Dayton	MB/REF	Uncontrolled	HCl	1.81E+02	ppmv	2.23E+00

**Table B.2-4 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Hydrogen Chloride Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from ppmv to lb/ton:					1.23E-02	
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
St. Croix	MOD/EA	Uncontrolled	HCl	7.43E+02	ppmv	9.14E+00
St. Croix	MOD/EA	Uncontrolled	HCl	7.06E+02	ppmv	8.68E+00
St. Croix	MOD/EA	Uncontrolled	HCl	4.86E+02	ppmv	5.98E+00
St. Croix	MOD/EA	Uncontrolled	HCl	7.50E+01	ppmv	9.23E-01
St. Croix	MOD/EA	Uncontrolled	HCl	4.00E+01	ppmv	4.92E-01
St. Croix	MOD/EA	Uncontrolled	HCl	5.70E+02	ppmv	7.01E+00
St. Croix	MOD/EA	Uncontrolled	HCl	4.93E+02	ppmv	6.06E+00
			<b>Average:</b>	<b>4.94E+02</b>	<b>Average:</b>	<b>6.08E+00</b>

10 Facilities

40 Tests

The above data is from files TABLE4-1.WK1, TABLE4-3.WK1, and TABLE4-5.WK1, which are located in zip folder B02s01.zip.

**Table B.2-5 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Hydrogen Chloride Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from ppmv to lb/ton:					1.23E-02	
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Babylon	MB/WW	SD/FF	HCl	2.00E+01	ppmv	2.46E-01
Babylon	MB/WW	SD/FF	HCl	4.90E+01	ppmv	6.03E-01
Babylon	MB/WW	SD/FF	HCl	2.40E+01	ppmv	2.95E-01
Commerce	MB/WW	SD/FF	HCl	5.50E+00	ppmv	6.77E-02
Commerce	MB/WW	SD/FF	HCl	7.30E+00	ppmv	8.98E-02
Commerce	MB/WW	SD/FF	HCl	8.80E+00	ppmv	1.08E-01
Indianapolis	MB/WW	SD/FF	HCl	5.00E-01	ppmv	6.15E-03
Indianapolis	MB/WW	SD/FF	HCl	2.00E-01	ppmv	2.46E-03
Indianapolis	MB/WW	SD/FF	HCl	1.68E+01	ppmv	2.07E-01
Long Beach	MB/WW	SD/FF	HCl	2.42E+01	ppmv	2.98E-01
Marion County	MB/WW	SD/FF	HCl	4.80E+01	ppmv	5.90E-01
Marion County	MB/WW	SD/FF	HCl	1.77E+01	ppmv	2.18E-01
Stanislaus County	MB/WW	SD/FF	HCl	7.30E-01	ppmv	8.98E-03
Stanislaus County	MB/WW	SD/FF	HCl	2.60E+00	ppmv	3.20E-02
			<b>Average:</b>	<b>1.61E+01</b>	<b>Average:</b>	<b>1.98E-01</b>

**6 Facilities**

**14 Tests**

The above data is from file TABLE4-1.WK1, which is located in zip folder B02s01.zip.

**Table B.2-6 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Lead Emissions Factor Taken From Table 2.1-2**

<b>Conversion Factor to convert from ug/dscm to lb/ton:</b>					<b>0.0000806</b>	
<b>Facility</b>	<b>Combustor Type</b>	<b>Control</b>	<b>Pollutant</b>	<b>Test Concentration</b>	<b>Units</b>	<b>Emissions Factor, (lb/ton)</b>
Adirondack (Boiler A)	MB/WW	SD/ESP	Pb	2.77E+01	µg/dscm	2.23E-04
Adirondack (Boiler B)	MB/WW	SD/ESP	Pb	2.91E+01	µg/dscm	2.35E-04
Adirondack (Boiler B)	MB/WW	SD/ESP	Pb	1.52E+01	µg/dscm	1.23E-04
Camden (Unit 1)	MB/WW	SD/ESP	Pb	5.52E+01	µg/dscm	4.45E-04
Charleston (Unit A)	MB/WW	SD/ESP	Pb	1.03E+02	µg/dscm	8.30E-04
Charleston (Unit B)	MB/WW	SD/ESP	Pb	6.05E+01	µg/dscm	4.88E-04
Haverhill	MB/WW	SD/ESP	Pb	1.40E+02	µg/dscm	1.13E-03
Haverhill	MB/WW	SD/ESP	Pb	1.50E+02	µg/dscm	1.21E-03
Haverhill	MB/WW	SD/ESP	Pb	4.90E+02	µg/dscm	3.95E-03
Millbury	MB/WW	SD/ESP	Pb	3.30E+02	µg/dscm	2.66E-03
Millbury	MB/WW	SD/ESP	Pb	2.80E+02	µg/dscm	2.26E-03
Millbury	MB/WW	SD/ESP	Pb	8.80E+01	µg/dscm	7.09E-04
Millbury	MB/WW	SD/ESP	Pb	1.70E+02	µg/dscm	1.37E-03
Millbury	MB/WW	SD/ESP	Pb	1.20E+02	µg/dscm	9.67E-04
Millbury	MB/WW	SD/ESP	Pb	2.80E+02	µg/dscm	2.26E-03
Millbury	MB/WW	SD/ESP	Pb	1.50E+02	µg/dscm	1.21E-03
Portland	MB/WW	SD/ESP	Pb	5.60E+01	µg/dscm	4.51E-04
Portland	MB/WW	SD/ESP	Pb	5.90E+01	µg/dscm	4.76E-04
			<b>Average:</b>	<b>1.45E+02</b>	<b>Average:</b>	<b>1.17E-03</b>

**6 Facilities**

**18 Tests**

The above data is from file TABLE4-1.WK1, which is located in zip folder B02s01.zip.



**Table B.2-7 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Mercury Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from ug/dscm to lb/ton:					0.0000806	
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Babylon	MB/WW	SD/FF	Hg	3.23E+02	µg/dscm	2.60E-03
Bristol	MB/WW	SD/FF	Hg	9.90E+01	µg/dscm	7.98E-04
Bristol	MB/WW	SD/FF	Hg	1.05E+02	µg/dscm	8.46E-04
Bristol	MB/WW	SD/FF	Hg	6.40E+01	µg/dscm	5.16E-04
Bristol	MB/WW	SD/FF	Hg	3.99E+02	µg/dscm	3.22E-03
Commerce (1987)	MB/WW	SD/FF	Hg	5.70E+02	µg/dscm	4.59E-03
Commerce (1988)	MB/WW	SD/FF	Hg	6.80E+01	µg/dscm	5.48E-04
Commerce (1988)	MB/WW	SD/FF	Hg	3.90E+01	µg/dscm	3.14E-04
Fairfax	MB/WW	SD/FF	Hg	3.31E+02	µg/dscm	2.67E-03
Fairfax	MB/WW	SD/FF	Hg	4.06E+02	µg/dscm	3.27E-03
Fairfax	MB/WW	SD/FF	Hg	4.66E+02	µg/dscm	3.76E-03
Fairfax	MB/WW	SD/FF	Hg	5.14E+02	µg/dscm	4.14E-03
Hempstead, Unit 1 (9/89)	MB/WW	SD/FF	Hg	9.28E+00	µg/dscm	7.48E-05
Hempstead, Unit 2 (9/89)	MB/WW	SD/FF	Hg	2.55E+01	µg/dscm	2.05E-04
Hempstead, Unit 3 (10/89)	MB/WW	SD/FF	Hg	2.50E+01	µg/dscm	2.01E-04
Huntsville	MB/WW	SD/FF	Hg	4.63E+02	µg/dscm	3.73E-03
Huntsville	MB/WW	SD/FF	Hg	1.28E+03	µg/dscm	1.03E-02
Indianapolis	MB/WW	SD/FF	Hg	2.00E+02	µg/dscm	1.61E-03
Indianapolis	MB/WW	SD/FF	Hg	2.77E+02	µg/dscm	2.23E-03
Indianapolis (Unit 1)	MB/WW	SD/FF	Hg	2.83E+02	µg/dscm	2.28E-03
Kent	MB/WW	SD/FF	Hg	1.66E+02	µg/dscm	1.34E-03
Kent	MB/WW	SD/FF	Hg	2.48E+02	µg/dscm	2.00E-03
Long Beach	MB/WW	SD/FF	Hg	1.80E+02	µg/dscm	1.45E-03
Marion County	MB/WW	SD/FF	Hg	2.39E+02	µg/dscm	1.93E-03
Stanislaus County	MB/WW	SD/FF	Hg	4.27E+02	µg/dscm	3.44E-03
Stanislaus County	MB/WW	SD/FF	Hg	5.08E+02	µg/dscm	4.09E-03
Stanislaus County	MB/WW	SD/FF	Hg	4.81E+02	µg/dscm	3.88E-03
Stanislaus County (Unit 1)	MB/WW	SD/FF	Hg	4.99E+02	µg/dscm	4.02E-03
Stanislaus County (Unit 2)	MB/WW	SD/FF	Hg	4.62E+02	µg/dscm	3.72E-03
Delaware (Unit 1)	MB/RC	SD/FF	Hg	4.06E+01	µg/dscm	3.27E-04
Delaware (Unit 2)	MB/RC	SD/FF	Hg	2.28E+01	µg/dscm	1.84E-04
Delaware (Unit 3)	MB/RC	SD/FF	Hg	3.05E+01	µg/dscm	2.46E-04
Delaware (Unit 4)	MB/RC	SD/FF	Hg	2.73E+01	µg/dscm	2.20E-04
Delaware (Unit 5)	MB/RC	SD/FF	Hg	5.43E+01	µg/dscm	4.38E-04
Delaware (Unit 6)	MB/RC	SD/FF	Hg	8.41E+01	µg/dscm	6.78E-04



**Table B.2-8 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Nickel Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from ug/dscm to lb/ton:				0.0000806		
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Commerce	MB/WW	SD/FF	Ni	6.00E+00	µg/dscm	4.84E-05
Commerce	MB/WW	SD/FF	Ni	2.00E-01	µg/dscm	1.61E-06
Long Beach	MB/WW	SD/FF	Ni	2.81E+00	µg/dscm	2.26E-05
Marion County	MB/WW	SD/FF	Ni	3.10E+00	µg/dscm	2.50E-05
Stanislaus County	MB/WW	SD/FF	Ni	2.58E+01	µg/dscm	2.08E-04
Stanislaus County	MB/WW	SD/FF	Ni	1.96E+01	µg/dscm	1.58E-04
Delaware (Unit 1)	MB/RC	SD/FF	Ni	1.61E+00	µg/dscm	1.30E-05
Delaware (Unit 2)	MB/RC	SD/FF	Ni	5.75E+00	µg/dscm	4.63E-05
Delaware (Unit 3)	MB/RC	SD/FF	Ni	1.48E+00	µg/dscm	1.19E-05
Delaware (Unit 4)	MB/RC	SD/FF	Ni	7.96E+00	µg/dscm	6.42E-05
Delaware (Unit 5)	MB/RC	SD/FF	Ni	2.03E+00	µg/dscm	1.64E-05
Delaware (Unit 6)	MB/RC	SD/FF	Ni	3.36E+00	µg/dscm	2.71E-05
Delaware (Unit 1)	MB/RC	SD/FF	Ni	1.53E+01	µg/dscm	1.23E-04
Delaware (Unit 2)	MB/RC	SD/FF	Ni	2.60E+00	µg/dscm	2.10E-05
Delaware (Unit 3)	MB/RC	SD/FF	Ni	7.39E+00	µg/dscm	5.96E-05
Delaware (Unit 4)	MB/RC	SD/FF	Ni	2.07E+00	µg/dscm	1.67E-05
Delaware (Unit 5)	MB/RC	SD/FF	Ni	2.74E+00	µg/dscm	2.21E-05
Delaware (Unit 6)	MB/RC	SD/FF	Ni	2.69E+00	µg/dscm	2.17E-05
York (Unit 1)	MB/RC	SD/FF	Ni	3.58E+00	µg/dscm	2.89E-05
York (Unit 2)	MB/RC	SD/FF	Ni	2.14E+00	µg/dscm	1.72E-05
York (Unit 3)	MB/RC	SD/FF	Ni	3.45E+00	µg/dscm	2.78E-05
York (Unit 1)	MB/RC	SD/FF	Ni	9.97E-01	µg/dscm	8.03E-06
York (Unit 2)	MB/RC	SD/FF	Ni	3.13E+00	µg/dscm	2.52E-05
York (Unit 3)	MB/RC	SD/FF	Ni	2.33E+00	µg/dscm	1.88E-05
York (Unit 1)	MB/RC	SD/FF	Ni	1.09E+00	µg/dscm	8.81E-06
York (Unit 2)	MB/RC	SD/FF	Ni	7.53E-01	µg/dscm	6.07E-06
York (Unit 3)	MB/RC	SD/FF	Ni	1.18E+00	µg/dscm	9.54E-06
York (Unit 1)	MB/RC	SD/FF	Ni	1.66E+00	µg/dscm	1.34E-05
York (Unit 2)	MB/RC	SD/FF	Ni	1.09E+00	µg/dscm	8.81E-06
York (Unit 3)	MB/RC	SD/FF	Ni	1.49E+00	µg/dscm	1.20E-05
York (Unit 1)	MB/RC	SD/FF	Ni	1.03E+00	µg/dscm	8.30E-06
York (Unit 1)	MB/RC	SD/FF	Ni	2.61E+00	µg/dscm	2.10E-05
York (Unit 2)	MB/RC	SD/FF	Ni	2.12E+00	µg/dscm	1.71E-05
York (Unit 3)	MB/RC	SD/FF	Ni	2.90E-01	µg/dscm	2.34E-06
York (Unit 1)	MB/RC	SD/FF	Ni	1.28E+00	µg/dscm	1.03E-05
York (Unit 2)	MB/RC	SD/FF	Ni	1.91E+00	µg/dscm	1.54E-05
York (Unit 3)	MB/RC	SD/FF	Ni	7.75E+00	µg/dscm	6.25E-05
			<b>Average:</b>	<b>4.12E+00</b>	<b>Average:</b>	<b>3.32E-05</b>

**6 Facilities**

**37 Tests**

The above data is from files TABLE4-1.WK1 and TABLE4-2.WK1, which are located in zip folder B02s01.zip.

**Table B.2-9 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Nitrogen Oxide Emissions Factor Taken From Table 2.1-4**

Conversion Factor to convert from ppmv to lb/ton:				0.0154		
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Adirondack (Boiler A)	MB/WW	NA	NOx	1.92E+02	ppmv	2.96E+00
Adirondack (Boiler B)	MB/WW	NA	NOx	1.61E+02	ppmv	2.48E+00
Adirondack (Boiler B)	MB/WW	NA	NOx	1.78E+02	ppmv	2.74E+00
Alexandria	MB/WW	NA	NOx	2.08E+02	ppmv	3.20E+00
Baltimore (Unit 1)	MB/WW	NA	NOx	2.22E+02	ppmv	3.42E+00
Baltimore (Unit 2)	MB/WW	NA	NOx	1.94E+02	ppmv	2.99E+00
Baltimore (Unit 3)	MB/WW	NA	NOx	1.94E+02	ppmv	2.98E+00
Camden (Unit 1)	MB/WW	NA	NOx	2.08E+02	ppmv	3.20E+00
Camden (Unit 2)	MB/WW	NA	NOx	2.08E+02	ppmv	3.20E+00
Camden (Unit 3)	MB/WW	NA	NOx	2.18E+02	ppmv	3.36E+00
Claremont (Unit 1)	MB/WW	NA	NOx	2.59E+02	ppmv	3.99E+00
Claremont (Unit 2)	MB/WW	NA	NOx	2.10E+02	ppmv	3.24E+00
Commerce	MB/WW	NA	NOx	1.54E+02	ppmv	2.38E+00
Hampton (Unit 1)	MB/WW	NA	NOx	2.19E+02	ppmv	3.38E+00
Hampton (Unit 2)	MB/WW	NA	NOx	2.39E+02	ppmv	3.67E+00
Long Beach	MB/WW	NA	NOx	6.82E+01	ppmv	1.05E+00
Marion County	MB/WW	NA	NOx	2.86E+02	ppmv	4.40E+00
Marion County	MB/WW	NA	NOx	2.57E+02	ppmv	3.96E+00
Marion County (Unit 2)	MB/WW	NA	NOx	2.85E+02	ppmv	4.39E+00
Marion County (Unit 2)	MB/WW	NA	NOx	2.44E+02	ppmv	3.76E+00
Millbury (Unit 1)	MB/WW	NA	NOx	2.34E+02	ppmv	3.60E+00
Millbury (Unit 2)	MB/WW	NA	NOx	2.26E+02	ppmv	3.48E+00
Nashville Thermal	MB/WW	NA	NOx	2.21E+02	ppmv	3.41E+00
Peekskill	MB/WW	NA	NOx	2.36E+02	ppmv	3.64E+00
Peekskill	MB/WW	NA	NOx	2.18E+02	ppmv	3.36E+00
Pinellas County	MB/WW	NA	NOx	2.86E+02	ppmv	4.40E+00
Quebec City	MB/WW	NA	NOx	3.14E+02	ppmv	4.84E+00
Stanislaus (Unit 1)	MB/WW	NA	NOx	2.97E+02	ppmv	4.57E+00
Stanislaus (Unit 2)	MB/WW	NA	NOx	3.04E+02	ppmv	4.68E+00
Tulsa (Unit 1)	MB/WW	NA	NOx	3.68E+02	ppmv	5.66E+00
Tulsa (Unit 2)	MB/WW	NA	NOx	3.72E+02	ppmv	5.73E+00
			<b>Average:</b>	<b>2.35E+02</b>	<b>Average:</b>	<b>3.62E+00</b>

16 Facilities

31 Tests

The above data is from file TABLE4-1.WK1, which is located in zip folder B02s01.zip.

**Table B.2-10 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Filterable Particulate Matter Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from mg/dscm to lb/ton:					0.00806	
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Claremont (Unit 1)	MB/WW	DSI/FF	PM	2.52E+01	mg/dscm	2.03E-01
Claremont (Unit 2)	MB/WW	DSI/FF	PM	9.84E+00	mg/dscm	7.93E-02
Concord	MB/WW	DSI/FF	PM	6.87E-01	mg/dscm	5.53E-03
Concord	MB/WW	DSI/FF	PM	1.37E+00	mg/dscm	1.11E-02
Vancouver	MB/WW	DSI/FF	PM	3.27E+01	mg/dscm	2.64E-01
Vancouver	MB/WW	DSI/FF	PM	1.01E+01	mg/dscm	8.12E-02
Vancouver	MB/WW	DSI/FF	PM	1.81E+01	mg/dscm	1.46E-01
Dutchess County	MB/RC	DSI/FF	PM	2.20E+01	mg/dscm	1.77E-01
Dutchess County	MB/RC	DSI/FF	PM	8.01E+01	mg/dscm	6.46E-01
Dutchess County (Unit 1)	MB/RC	DSI/FF	PM	2.22E+01	mg/dscm	1.79E-01
Dutchess County (Unit 2)	MB/RC	DSI/FF	PM	1.81E+01	mg/dscm	1.46E-01
Dutchess County (Unit 2)	MB/RC	DSI/FF	PM	2.52E+01	mg/dscm	2.03E-01
Dutchess County (Unit 2)	MB/RC	DSI/FF	PM	8.01E+01	mg/dscm	6.46E-01
St. Croix	MOD/EA	DSI/FF	PM	3.43E+01	mg/dscm	2.77E-01
St. Croix	MOD/EA	DSI/FF	PM	2.75E+01	mg/dscm	2.21E-01
			<b>Average:</b>	<b>2.72E+01</b>	<b>Average:</b>	<b>2.19E-01</b>

**5 Facilities**

**15 Tests**

The above data is from files TABLE4-1.WK1, TABLE4-2.WK1, and TABLE4-5.WK1, which are located in zip folder B02s01.zip.

**Table B.2-11 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Filterable Particulate Matter Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from mg/dscm to lb/ton:					0.00806	
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Adirondack (Boiler A)	MB/WW	SD/ESP	PM	7.10E+00	mg/dscm	5.72E-02
Adirondack (Boiler B)	MB/WW	SD/ESP	PM	5.95E+00	mg/dscm	4.80E-02
Adirondack (Boiler B)	MB/WW	SD/ESP	PM	1.05E+01	mg/dscm	8.46E-02
Camden (Unit 1)	MB/WW	SD/ESP	PM	6.97E+00	mg/dscm	5.62E-02
Camden (Unit 2)	MB/WW	SD/ESP	PM	1.02E+01	mg/dscm	8.22E-02
Haverhill	MB/WW	SD/ESP	PM	9.84E+00	mg/dscm	7.93E-02
Haverhill	MB/WW	SD/ESP	PM	9.84E+00	mg/dscm	7.93E-02
Haverhill	MB/WW	SD/ESP	PM	1.01E+01	mg/dscm	8.12E-02
Millbury	MB/WW	SD/ESP	PM	1.95E+00	mg/dscm	1.57E-02
Millbury	MB/WW	SD/ESP	PM	1.01E+01	mg/dscm	8.12E-02
Millbury	MB/WW	SD/ESP	PM	4.12E+00	mg/dscm	3.32E-02
Millbury	MB/WW	SD/ESP	PM	9.84E+00	mg/dscm	7.93E-02
Millbury	MB/WW	SD/ESP	PM	1.85E+01	mg/dscm	1.49E-01
Millbury	MB/WW	SD/ESP	PM	1.90E+01	mg/dscm	1.53E-01
Millbury	MB/WW	SD/ESP	PM	4.12E+00	mg/dscm	3.32E-02
Millbury	MB/WW	SD/ESP	PM	8.24E+00	mg/dscm	6.64E-02
Portland	MB/WW	SD/ESP	PM	7.32E+00	mg/dscm	5.90E-02
Portland	MB/WW	SD/ESP	PM	8.24E+00	mg/dscm	6.64E-02
			<b>Average:</b>	<b>8.99E+00</b>	<b>Average:</b>	<b>7.25E-02</b>

**5 Facilities**

**18 Tests**

The above data is from file TABLE4-1.WK1, which is located in zip folder B02s01.zip.

**Table B.2-12 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Filterable Particulate Matter Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from mg/dscm to lb/ton:					0.00806	
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Babylon	MB/WW	SD/FF	PM	2.75E+00	mg/dscm	2.21E-02
Babylon	MB/WW	SD/FF	PM	2.75E+00	mg/dscm	2.21E-02
Babylon	MB/WW	SD/FF	PM	7.55E+00	mg/dscm	6.09E-02
Babylon	MB/WW	SD/FF	PM	3.89E+00	mg/dscm	3.14E-02
Babylon	MB/WW	SD/FF	PM	6.64E+00	mg/dscm	5.35E-02
Bridgeport	MB/WW	SD/FF	PM	1.60E+00	mg/dscm	1.29E-02
Bridgeport	MB/WW	SD/FF	PM	1.60E+00	mg/dscm	1.29E-02
Bridgeport	MB/WW	SD/FF	PM	8.92E+00	mg/dscm	7.19E-02
Bridgeport	MB/WW	SD/FF	PM	1.24E+01	mg/dscm	9.96E-02
Bridgeport	MB/WW	SD/FF	PM	4.35E+00	mg/dscm	3.50E-02
Bridgeport	MB/WW	SD/FF	PM	1.60E+00	mg/dscm	1.29E-02
Bristol	MB/WW	SD/FF	PM	3.20E+00	mg/dscm	2.58E-02
Bristol	MB/WW	SD/FF	PM	3.20E+00	mg/dscm	2.58E-02
Bristol	MB/WW	SD/FF	PM	7.09E+00	mg/dscm	5.72E-02
Bristol	MB/WW	SD/FF	PM	1.51E+01	mg/dscm	1.22E-01
Commerce	MB/WW	SD/FF	PM	3.20E+00	mg/dscm	2.58E-02
Commerce	MB/WW	SD/FF	PM	1.60E+00	mg/dscm	1.29E-02
Commerce	MB/WW	SD/FF	PM	6.18E+00	mg/dscm	4.98E-02
Fairfax	MB/WW	SD/FF	PM	4.81E+00	mg/dscm	3.87E-02
Fairfax	MB/WW	SD/FF	PM	2.29E+01	mg/dscm	1.84E-01
Fairfax	MB/WW	SD/FF	PM	4.81E+00	mg/dscm	3.87E-02
Fairfax	MB/WW	SD/FF	PM	1.01E+01	mg/dscm	8.12E-02
Gloucester	MB/WW	SD/FF	PM	3.89E+00	mg/dscm	3.14E-02
Gloucester	MB/WW	SD/FF	PM	1.40E+01	mg/dscm	1.13E-01
Gloucester	MB/WW	SD/FF	PM	1.14E+00	mg/dscm	9.22E-03
Hempstead	MB/WW	SD/FF	PM	3.43E+00	mg/dscm	2.77E-02
Hempstead	MB/WW	SD/FF	PM	6.18E+00	mg/dscm	4.98E-02
Hempstead	MB/WW	SD/FF	PM	2.75E+00	mg/dscm	2.21E-02
Huntsville	MB/WW	SD/FF	PM	3.89E+00	mg/dscm	3.14E-02
Huntsville	MB/WW	SD/FF	PM	1.90E+01	mg/dscm	1.53E-01
Indianapolis	MB/WW	SD/FF	PM	5.03E+00	mg/dscm	4.06E-02
Indianapolis	MB/WW	SD/FF	PM	8.24E+00	mg/dscm	6.64E-02
Indianapolis	MB/WW	SD/FF	PM	9.38E+00	mg/dscm	7.56E-02
Indianapolis	MB/WW	SD/FF	PM	5.95E+00	mg/dscm	4.80E-02
Indianapolis	MB/WW	SD/FF	PM	9.15E+00	mg/dscm	7.38E-02
Kent	MB/WW	SD/FF	PM	4.58E-01	mg/dscm	3.69E-03
Kent	MB/WW	SD/FF	PM	4.58E-01	mg/dscm	3.69E-03
Long Beach	MB/WW	SD/FF	PM	1.37E+01	mg/dscm	1.11E-01

**Table B.2-12 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Filterable Particulate Matter Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from mg/dscm to lb/ton:					0.00806	
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Marion County	MB/WW	SD/FF	PM	1.33E+01	mg/dscm	1.07E-01
Marion County	MB/WW	SD/FF	PM	3.64E+01	mg/dscm	2.93E-01
Marion County	MB/WW	SD/FF	PM	1.21E+01	mg/dscm	9.78E-02
Marion County	MB/WW	SD/FF	PM	5.26E+00	mg/dscm	4.24E-02
Stanislaus County	MB/WW	SD/FF	PM	9.38E+00	mg/dscm	7.56E-02
Stanislaus County	MB/WW	SD/FF	PM	1.26E+01	mg/dscm	1.01E-01
Stanislaus County	MB/WW	SD/FF	PM	5.03E+00	mg/dscm	4.06E-02
Stanislaus County	MB/WW	SD/FF	PM	1.26E+01	mg/dscm	1.01E-01
Stanislaus County	MB/WW	SD/FF	PM	5.03E+00	mg/dscm	4.06E-02
Delaware (Unit 1)	MB/RC	SD/FF	PM	1.83E+00	mg/dscm	1.47E-02
Delaware (Unit 2)	MB/RC	SD/FF	PM	1.08E+01	mg/dscm	8.67E-02
Delaware (Unit 3)	MB/RC	SD/FF	PM	2.06E+00	mg/dscm	1.66E-02
Delaware (Unit 4)	MB/RC	SD/FF	PM	4.81E+00	mg/dscm	3.88E-02
Delaware (Unit 5)	MB/RC	SD/FF	PM	2.98E+00	mg/dscm	2.40E-02
Delaware (Unit 6)	MB/RC	SD/FF	PM	7.56E+00	mg/dscm	6.09E-02
Delaware (Unit 1)	MB/RC	SD/FF	PM	5.50E+00	mg/dscm	4.43E-02
Delaware (Unit 2)	MB/RC	SD/FF	PM	1.83E+00	mg/dscm	1.47E-02
Delaware (Unit 3)	MB/RC	SD/FF	PM	2.52E+00	mg/dscm	2.03E-02
Delaware (Unit 4)	MB/RC	SD/FF	PM	2.98E+00	mg/dscm	2.40E-02
Delaware (Unit 5)	MB/RC	SD/FF	PM	2.75E+00	mg/dscm	2.22E-02
Delaware (Unit 6)	MB/RC	SD/FF	PM	9.20E-01	mg/dscm	7.42E-03
York (Unit 1)	MB/RC	SD/FF	PM	1.51E+01	mg/dscm	1.22E-01
York (Unit 2)	MB/RC	SD/FF	PM	1.37E+01	mg/dscm	1.10E-01
York (Unit 3)	MB/RC	SD/FF	PM	9.38E+00	mg/dscm	7.56E-02
York (Unit 1)	MB/RC	SD/FF	PM	1.51E+01	mg/dscm	1.22E-01
York (Unit 2)	MB/RC	SD/FF	PM	6.64E+00	mg/dscm	5.35E-02
York (Unit 3)	MB/RC	SD/FF	PM	1.67E+01	mg/dscm	1.35E-01
York (Unit 1)	MB/RC	SD/FF	PM	3.11E+01	mg/dscm	2.51E-01
York (Unit 2)	MB/RC	SD/FF	PM	2.34E+01	mg/dscm	1.89E-01
York (Unit 3)	MB/RC	SD/FF	PM	2.40E+01	mg/dscm	1.93E-01
York (Unit 1)	MB/RC	SD/FF	PM	4.35E+00	mg/dscm	3.51E-02
York (Unit 2)	MB/RC	SD/FF	PM	5.50E+00	mg/dscm	4.43E-02
York (Unit 3)	MB/RC	SD/FF	PM	1.24E+01	mg/dscm	9.99E-02
York (Unit 1)	MB/RC	SD/FF	PM	1.60E+00	mg/dscm	1.29E-02
York (Unit 2)	MB/RC	SD/FF	PM	5.73E+00	mg/dscm	4.62E-02
York (Unit 3)	MB/RC	SD/FF	PM	9.20E-01	mg/dscm	7.42E-03
York (Unit 1)	MB/RC	SD/FF	PM	2.29E+00	mg/dscm	1.85E-02
York (Unit 2)	MB/RC	SD/FF	PM	2.29E+00	mg/dscm	1.85E-02
York (Unit 3)	MB/RC	SD/FF	PM	8.47E+00	mg/dscm	6.83E-02
			<b>Average:</b>	<b>7.79E+00</b>	<b>Average:</b>	<b>6.28E-02</b>

15 Facilities

77 Tests

The above data is from files TABLE4-1.WK1 and TABLE4-2.WK1, which are located in zip folder B02s01.zip.



**Table B.2-13 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Filterable Particulate Matter Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from mg/dscm to lb/ton:				0.00806		
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Adirondack (Boiler A)	MB/WW	Uncontrolled	PM	5.07E+03	mg/dscm	4.08E+01
Adirondack (Boiler B)	MB/WW	Uncontrolled	PM	5.19E+03	mg/dscm	4.18E+01
Adirondack (Boiler B)	MB/WW	Uncontrolled	PM	5.61E+03	mg/dscm	4.52E+01
Baltimore RESCO (Unit 2)	MB/WW	Uncontrolled	PM	4.69E+03	mg/dscm	3.78E+01
Commerce	MB/WW	Uncontrolled	PM	4.60E+03	mg/dscm	3.71E+01
Commerce	MB/WW	Uncontrolled	PM	4.07E+03	mg/dscm	3.28E+01
Commerce	MB/WW	Uncontrolled	PM	2.81E+03	mg/dscm	2.27E+01
Long Beach	MB/WW	Uncontrolled	PM	3.62E+03	mg/dscm	2.91E+01
Marion County	MB/WW	Uncontrolled	PM	2.02E+03	mg/dscm	1.62E+01
North Andover	MB/WW	Uncontrolled	PM	1.90E+03	mg/dscm	1.53E+01
Peekskill	MB/WW	Uncontrolled	PM	2.22E+03	mg/dscm	1.79E+01
Peekskill	MB/WW	Uncontrolled	PM	3.73E+03	mg/dscm	3.01E+01
Peekskill	MB/WW	Uncontrolled	PM	4.85E+03	mg/dscm	3.91E+01
Peekskill	MB/WW	Uncontrolled	PM	4.81E+03	mg/dscm	3.87E+01
Pinellas County (Unit 3)	MB/WW	Uncontrolled	PM	2.20E+03	mg/dscm	1.77E+01
Dayton	MB/REF	Uncontrolled	PM	1.47E+03	mg/dscm	1.18E+01
Dayton	MB/REF	Uncontrolled	PM	2.72E+03	mg/dscm	2.19E+01
Dayton	MB/REF	Uncontrolled	PM	1.28E+03	mg/dscm	1.03E+01
Dayton	MB/REF	Uncontrolled	PM	1.29E+03	mg/dscm	1.04E+01
Dayton	MB/REF	Uncontrolled	PM	2.59E+03	mg/dscm	2.08E+01
Pigeon Point	MOD/EA	Uncontrolled	PM	9.89E+02	mg/dscm	7.97E+00
Pigeon Point	MOD/EA	Uncontrolled	PM	2.05E+03	mg/dscm	1.66E+01
Pigeon Point	MOD/EA	Uncontrolled	PM	2.38E+03	mg/dscm	1.92E+01
Pigeon Point	MOD/EA	Uncontrolled	PM	2.36E+03	mg/dscm	1.90E+01
			<b>Average:</b>	<b>3.10E+03</b>	<b>Average:</b>	<b>2.50E+01</b>

**10 Facilities  
24 Tests**

The above data is from files TABLE4-1.WK1, TABLE4-3.WK1, and TABLE4-5.WK1, which are located in zip folder B02s01.zip.

**Table B.2-14 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Filterable Particulate Matter Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from mg/dscm to lb/ton:				0.00806		
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Alexandria (Unit 2)	MB/WW	ESP	PM	6.87E+01	mg/dscm	5.53E-01
Alexandria (Unit 3)	MB/WW	ESP	PM	5.72E+01	mg/dscm	4.61E-01
Baltimore RESCO (Unit 1)	MB/WW	ESP	PM	4.58E+00	mg/dscm	3.69E-02
Baltimore RESCO (Unit 2)	MB/WW	ESP	PM	1.01E+01	mg/dscm	8.12E-02
Baltimore RESCO (Unit 2)	MB/WW	ESP	PM	6.18E+00	mg/dscm	4.98E-02
Baltimore RESCO (Unit 3)	MB/WW	ESP	PM	2.29E+00	mg/dscm	1.84E-02
Hillsborough	MB/WW	ESP	PM	1.08E+01	mg/dscm	8.67E-02
North Andover	MB/WW	ESP	PM	8.24E+00	mg/dscm	6.64E-02
Peekskill	MB/WW	ESP	PM	3.43E+01	mg/dscm	2.77E-01
Peekskill	MB/WW	ESP	PM	3.66E+01	mg/dscm	2.95E-01
Peekskill	MB/WW	ESP	PM	3.43E+01	mg/dscm	2.77E-01
Peekskill	MB/WW	ESP	PM	4.58E+01	mg/dscm	3.69E-01
Pinellas County	MB/WW	ESP	PM	5.26E+00	mg/dscm	4.24E-02
Pinellas County (Unit 3)	MB/WW	ESP	PM	5.26E+00	mg/dscm	4.24E-02
Quebec City	MB/WW	ESP	PM	2.29E+01	mg/dscm	1.85E-01
Tulsa	MB/WW	ESP	PM	1.95E+01	mg/dscm	1.57E-01
Tulsa	MB/WW	ESP	PM	5.26E+00	mg/dscm	4.24E-02
Tulsa	MB/WW	ESP	PM	5.58E+01	mg/dscm	4.50E-01
Tulsa (Unit 1)	MB/WW	ESP	PM	2.15E+01	mg/dscm	1.73E-01
Tulsa (Unit 2)	MB/WW	ESP	PM	1.12E+01	mg/dscm	9.04E-02
Bay County (Unit 1)	MB/RC	ESP	PM	4.35E+01	mg/dscm	3.50E-01
Bay County (Unit 2)	MB/RC	ESP	PM	5.49E+01	mg/dscm	4.43E-01
Dayton	MB/REF	ESP	PM	1.51E+01	mg/dscm	1.22E-01
Dayton	MB/REF	ESP	PM	1.44E+01	mg/dscm	1.16E-01
McKay Bay (Unit 1)	MB/REF	ESP	PM	2.97E+01	mg/dscm	2.40E-01
McKay Bay (Unit 2)	MB/REF	ESP	PM	2.75E+01	mg/dscm	2.21E-01
McKay Bay (Unit 3)	MB/REF	ESP	PM	9.61E+00	mg/dscm	7.75E-02
McKay Bay (Unit 4)	MB/REF	ESP	PM	1.81E+01	mg/dscm	1.46E-01
Pigeon Point	MOD/EA	ESP	PM	3.43E+00	mg/dscm	2.77E-02
Pigeon Point	MOD/EA	ESP	PM	1.21E+01	mg/dscm	9.78E-02
Pigeon Point	MOD/EA	ESP	PM	4.35E+00	mg/dscm	3.50E-02
Pigeon Point	MOD/EA	ESP	PM	6.64E+00	mg/dscm	5.35E-02
Pigeon Point	MOD/EA	ESP	PM	6.87E+00	mg/dscm	5.53E-02

**Table B.2-14 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Filterable Particulate Matter Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from mg/dscm to lb/ton:					0.00806	
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Pope/Douglas	MOD/EA	ESP	PM	8.47E+01	mg/dscm	6.82E-01
Pope/Douglas	MOD/EA	ESP	PM	5.72E+01	mg/dscm	4.61E-01
			<b>Average:</b>	<b>2.44E+01</b>	<b>Average:</b>	<b>1.97E-01</b>

**13 Facilities**

**35 Tests**

The above data is from files TABLE4-1.WK1, TABLE4-2.WK1, TABLE4-3.WK1, and TABLE4-5.WK1, which are located in zip folder B02s01.zip.

**Table B.2-15 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Filterable Particulate Matter Emissions Factor Taken From Table 2.1-8**

Conversion Factor to convert from mg/dscm to lb/ton:				0.00985		
Facility	Combuster Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Detroit	RDF	ESP	PM	1.03E+01	mg/dscm	1.01E-01
Detroit	RDF	ESP	PM	4.81E+00	mg/dscm	4.73E-02
Detroit	RDF	ESP	PM	6.41E+00	mg/dscm	6.31E-02
Lawrence	RDF	ESP	PM	2.29E+01	mg/dscm	2.25E-01
Albany	RDF	ESP	PM	3.18E+02	mg/dscm	3.13E+00
NSP Red V	RDF	ESP	PM	5.49E+01	mg/dscm	5.41E-01
NSP Red V	RDF	ESP	PM	9.38E+01	mg/dscm	9.24E-01
Niagara Fa	RDF	ESP	PM	5.72E+01	mg/dscm	5.64E-01
Niagara Fa	RDF	ESP	PM	2.20E+02	mg/dscm	2.16E+00
Niagara Fa	RDF	ESP	PM	3.66E+01	mg/dscm	3.61E-01
			<b>Average:</b>	8.76E+01	<b>Average:</b>	8.62E-01

**5 Facilities**

**10 Tests**

**Table B.2-16 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Filterable Particulate Matter Emissions Factor Taken From Table 2.1-8**

Conversion Factor to convert from mg/dscm to lb/ton:					0.00985	
Facility	Combuster Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Biddeford	RDF	Uncontrolled	PM	7.32E+03	mg/dscm	7.21E+01
Albany	RDF	Uncontrolled	PM	1.06E+04	mg/dscm	1.04E+02
Mid-Connecticut	RDF	Uncontrolled	PM	4.81E+03	mg/dscm	4.74E+01
Mid-Connecticut	RDF	Uncontrolled	PM	4.14E+03	mg/dscm	4.08E+01
Mid-Connecticut	RDF	Uncontrolled	PM	3.36E+03	mg/dscm	3.31E+01
Mid-Connecticut	RDF	Uncontrolled	PM	5.51E+03	mg/dscm	5.43E+01
Mid-Connecticut	RDF	Uncontrolled	PM	3.46E+03	mg/dscm	3.40E+01
NSP Red Wing	RDF	Uncontrolled	PM	4.69E+03	mg/dscm	4.62E+01
Niagara Falls	RDF	Uncontrolled	PM	8.03E+03	mg/dscm	7.91E+01
Niagara Falls	RDF	Uncontrolled	PM	6.36E+03	mg/dscm	6.27E+01
Semass	RDF	Uncontrolled	PM	8.83E+03	mg/dscm	8.70E+01
Semass	RDF	Uncontrolled	PM	9.79E+03	mg/dscm	9.65E+01
West Palm Beach	RDF	Uncontrolled	PM	6.09E+03	mg/dscm	6.00E+01
			<b>Average:</b>	<b>6.39E+03</b>	<b>Average:</b>	<b>6.29E+01</b>

**7 Facilities**

**13 Tests**

**Table B.2-17 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Sulfur Dioxide Emissions Factor Taken From Table 2.1-2**

<b>Conversion Factor to convert from ppmv to lb/ton: 0.0215</b>						
<b>Facility</b>	<b>Combustor Type</b>	<b>Control</b>	<b>Pollutant</b>	<b>Test Concentration</b>	<b>Units</b>	<b>Emissions Factor, (lb/ton)</b>
Adirondack (Boiler A)	MB/WW	Uncontrolled	SO2	9.45E+01	ppmv	2.03E+00
Adirondack (Boiler B)	MB/WW	Uncontrolled	SO2	1.81E+02	ppmv	3.89E+00
Adirondack (Boiler B)	MB/WW	Uncontrolled	SO2	6.37E+01	ppmv	1.37E+00
Babylon	MB/WW	Uncontrolled	SO2	1.91E+02	ppmv	4.11E+00
Babylon	MB/WW	Uncontrolled	SO2	1.41E+02	ppmv	3.03E+00
Babylon	MB/WW	Uncontrolled	SO2	1.78E+02	ppmv	3.83E+00
Camden (Unit 1)	MB/WW	Uncontrolled	SO2	2.10E+02	ppmv	4.52E+00
Camden (Unit 2)	MB/WW	Uncontrolled	SO2	1.05E+02	ppmv	2.26E+00
Camden (Unit 3)	MB/WW	Uncontrolled	SO2	1.62E+02	ppmv	3.48E+00
Commerce	MB/WW	Uncontrolled	SO2	1.32E+02	ppmv	2.84E+00
Commerce	MB/WW	Uncontrolled	SO2	2.73E+02	ppmv	5.87E+00
Commerce	MB/WW	Uncontrolled	SO2	1.11E+02	ppmv	2.39E+00
Long Beach	MB/WW	Uncontrolled	SO2	1.40E+02	ppmv	3.01E+00
Long Beach	MB/WW	Uncontrolled	SO2	1.38E+02	ppmv	2.97E+00
Marion County	MB/WW	Uncontrolled	SO2	1.83E+02	ppmv	3.93E+00
Marion County	MB/WW	Uncontrolled	SO2	3.33E+02	ppmv	7.16E+00
Marion County (1986)	MB/WW	Uncontrolled	SO2	1.80E+02	ppmv	3.87E+00
Marion County (1987)	MB/WW	Uncontrolled	SO2	3.30E+02	ppmv	7.10E+00
Millbury	MB/WW	Uncontrolled	SO2	2.96E+02	ppmv	6.36E+00
Millbury	MB/WW	Uncontrolled	SO2	1.74E+02	ppmv	3.74E+00
Millbury	MB/WW	Uncontrolled	SO2	2.05E+02	ppmv	4.41E+00
Millbury (Unit 1)	MB/WW	Uncontrolled	SO2	2.10E+02	ppmv	4.52E+00
Millbury (Unit 2)	MB/WW	Uncontrolled	SO2	3.00E+02	ppmv	6.45E+00
Portland	MB/WW	Uncontrolled	SO2	3.00E+02	ppmv	6.45E+00
Portland	MB/WW	Uncontrolled	SO2	2.81E+02	ppmv	6.04E+00
Portland	MB/WW	Uncontrolled	SO2	3.22E+02	ppmv	6.92E+00
Stanislaus County	MB/WW	Uncontrolled	SO2	5.88E+01	ppmv	1.26E+00
Stanislaus County	MB/WW	Uncontrolled	SO2	6.67E+01	ppmv	1.43E+00
Vancouver	MB/WW	Uncontrolled	SO2	1.61E+02	ppmv	3.46E+00
Vancouver	MB/WW	Uncontrolled	SO2	1.57E+02	ppmv	3.38E+00
Vancouver	MB/WW	Uncontrolled	SO2	1.39E+02	ppmv	2.99E+00
Dutchess County (Unit 1)	MB/RC	Uncontrolled	SO2	1.21E+02	ppmv	2.60E+00
Dutchess County (Unit 2)	MB/RC	Uncontrolled	SO2	1.38E+02	ppmv	2.97E+00
Dayton	MB/REF	Uncontrolled	SO2	1.11E+02	ppmv	2.39E+00
Dayton	MB/REF	Uncontrolled	SO2	1.19E+02	ppmv	2.56E+00
Dayton	MB/REF	Uncontrolled	SO2	1.14E+02	ppmv	2.45E+00

**Table B.2-17 AP-42 Chapter 2.1 - Refuse Combustion (Solid Waste Disposal), Sulfur Dioxide Emissions Factor Taken From Table 2.1-2**

Conversion Factor to convert from ppmv to lb/ton:				0.0215		
Facility	Combustor Type	Control	Pollutant	Test Concentration	Units	Emissions Factor, (lb/ton)
Dayton	MB/REF	Uncontrolled	SO2	1.21E+02	ppmv	2.60E+00
Dayton	MB/REF	Uncontrolled	SO2	7.20E+01	ppmv	1.55E+00
Dayton	MB/REF	Uncontrolled	SO2	1.29E+02	ppmv	2.77E+00
St. Croix	MOD/EA	Uncontrolled	SO2	9.00E+00	ppmv	1.94E-01
St. Croix	MOD/EA	Uncontrolled	SO2	1.77E+02	ppmv	3.81E+00
St. Croix	MOD/EA	Uncontrolled	SO2	1.20E+02	ppmv	2.58E+00
St. Croix	MOD/EA	Uncontrolled	SO2	8.60E+01	ppmv	1.85E+00
St. Croix	MOD/EA	Uncontrolled	SO2	5.00E+01	ppmv	1.08E+00
St. Croix	MOD/EA	Uncontrolled	SO2	7.90E+01	ppmv	1.70E+00
St. Croix	MOD/EA	Uncontrolled	SO2	9.90E+01	ppmv	2.13E+00
			<b>Average:</b>	<b>1.60E+02</b>	<b>Average:</b>	<b>3.44E+00</b>

**13 Facilities**

**46 Tests**

The above data is from files TABLE4-1.WK1, TABLE4-3.WK1, and TABLE4-5.WK1, which are located in zip folder B02s01.zip.

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## **Appendix B.3**

# **Waferboard/Oriented Strandboard Manufacturing**

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**Table B.3-1 AP-42 Chapter 10.6.1 - Waferboard/Oriented Strandboard Manufacturing (Wood Products Industry), Filterable Particulate Matter Emissions Factor Taken From Table 10.6.1-4**

<b>Hot Press, PF/MDI Resins</b>					
<b>Unit Code</b>	<b>Test Date</b>	<b>Number of Runs</b>	<b>Pollutant</b>	<b>Emissions Factor</b>	<b>Emissions Factor Unit</b>
1P088	12/10/1992	3	Filterable PM	1.28E-01	lb/MSF 3/8
1P096	6/4/1990	3	Filterable PM	1.19E-01	lb/MSF 3/8
1P096	6/4/1990	3	Filterable PM	6.50E-02	lb/MSF 3/8
1P096	6/5/1990	3	Filterable PM	3.18E-02	lb/MSF 3/8
1P096	6/5/1990	3	Filterable PM	5.02E-02	lb/MSF 3/8
1P096	6/6/1990	3	Filterable PM	4.03E-02	lb/MSF 3/8
1P096	6/6/1990	3	Filterable PM	5.11E-02	lb/MSF 3/8
1P096	6/7/1990	3	Filterable PM	4.67E-02	lb/MSF 3/8
1P096	6/7/1990	3	Filterable PM	6.09E-02	lb/MSF 3/8
1P096	6/8/1990	3	Filterable PM	8.65E-02	lb/MSF 3/8
1P096	6/8/1990	3	Filterable PM	6.45E-02	lb/MSF 3/8
1P211	2/25/1992	3	Filterable PM	5.77E-02	lb/MSF 3/8
2P096	1/28/1993	3	Filterable PM	9.69E-02	lb/MSF 3/8
PH1-1	6/10/1994	3	Filterable PM	1.21E-01	lb/MSF 3/8
PH2-1	6/10/1994	3	Filterable PM	2.94E+00	lb/MSF 3/8
PHO-1	4/19/1995	3	Filterable PM	1.71E-02	lb/MSF 3/8
PMO-1	12/8/1994	3	Filterable PM	6.39E-02	lb/MSF 3/8
PMO-1	1/29/1993	3	Filterable PM	9.71E-02	lb/MSF 3/8
PMO-1	3/31/1994	3	Filterable PM	1.36E-01	lb/MSF 3/8
PSA-1	4/13/1995	3	Filterable PM	4.49E-02	lb/MSF 3/8
PSA-1	6/25/1993	3	Filterable PM	1.38E-01	lb/MSF 3/8
PSL-1	7/14/1995	3	Filterable PM	2.40E-01	lb/MSF 3/8
PTO-1	7/13/1995	3	Filterable PM	2.81E-01	lb/MSF 3/8
PTO-1	8/23/1995	3	Filterable PM	7.75E-02	lb/MSF 3/8
PTO-1	8/19/1993	3	Filterable PM	1.36E-01	lb/MSF 3/8
PUR-1	4/9/1992	3	Filterable PM	4.10E-01	lb/MSF 3/8
			<b>Average:</b>	<b>2.15E-01</b>	lb/MSF 3/8
			<b>Number of Tests:</b>	<b>26</b>	
			<b>Number of Runs:</b>	<b>78</b>	

The above data is from file r10s0601.xls (Hot Press Worksheet Tab), which is located in zip folder r10s0601.zip.

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## **Appendix B.4**

### **Hot Mix Asphalt Plants**

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**Table B.4-1 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Benzene Emissions Factor Taken From Table 11.1-10**

<b>Control</b>	<b>Fuel Fired</b>	<b>Pollutant</b>	<b>No. of Test Runs</b>	<b>Data Rating</b>	<b>Emissions Factor</b>	<b>Emissions Factor Unit</b>
Fabric Filter	Drain Oil	Benzene	3	A	9.20E-05	lb/ton
Fabric Filter	Drain Oil	Benzene	3	A	1.20E-04	lb/ton
Fabric Filter	Drain Oil	Benzene	3	A	1.20E-04	lb/ton
Fabric Filter	Natural Gas	Benzene	3	A	3.60E-04	lb/ton
Fabric Filter	Waste Oil	Benzene	3	A	6.30E-05	lb/ton
Fabric Filter	Drain Oil	Benzene	3	A	1.50E-04	lb/ton
Fabric Filter	Natural Gas	Benzene	3	A	2.20E-04	lb/ton
Fabric Filter	Drain Oil	Benzene	3	A	2.60E-04	lb/ton
Fabric Filter	Natural Gas	Benzene	3	A	2.70E-04	lb/ton
Fabric Filter	Drain Oil	Benzene	3	A	2.90E-04	lb/ton
Fabric Filter	No. 2 Fuel Oil	Benzene	9	C	3.00E-04	lb/ton
Fabric Filter	Drain Oil	Benzene	3	B	3.80E-04	lb/ton
Fabric Filter	Natural Gas	Benzene	2	B	4.00E-04	lb/ton
Fabric Filter	Waste Oil	Benzene	19	B	4.10E-04	lb/ton
Fabric Filter	Natural Gas	Benzene	3	A	4.40E-04	lb/ton
Fabric Filter	Drain Oil	Benzene	3	A	5.60E-04	lb/ton
Fabric Filter	Waste Oil	Benzene	3	A	6.90E-04	lb/ton
Fabric Filter	Drain Oil and Natural Gas	Benzene	3	A	1.10E-03	lb/ton
Fabric Filter	Natural Gas	Benzene	3	A	1.20E-03	lb/ton
		<b>Total Runs:</b>	<b>78</b>	<b>Average:</b>	<b>3.91E-04</b>	<b>lb/ton</b>

The above data is from file b11s01.pdf, Table 4-17, Pages 4-249 through 4-250.

**Table B.4-2 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Formaldehyde Emissions Factor Taken From Table 11.1-10**

<b>Control</b>	<b>Fuel Fired</b>	<b>Pollutant</b>	<b>No. of Test Runs</b>	<b>Data Rating</b>	<b>Emissions Factor</b>	<b>Emissions Factor Unit</b>
Fabric Filter	Natural Gas	Formaldehyde	3	A	3.00E-04	lb/ton
Fabric Filter	Natural Gas	Formaldehyde	3	A	4.60E-04	lb/ton
Fabric Filter	Waste Oil	Formaldehyde	3	A	5.70E-04	lb/ton
Fabric Filter	Waste Oil	Formaldehyde	3	A	6.60E-04	lb/ton
Fabric Filter	Propane	Formaldehyde	3	B	6.70E-04	lb/ton
Fabric Filter	Drain Oil	Formaldehyde	3	A	9.10E-04	lb/ton
Fabric Filter	Waste Oil	Formaldehyde	3	A	1.20E-03	lb/ton
Fabric Filter	Natural Gas	Formaldehyde	3	A	1.30E-03	lb/ton
Fabric Filter	Drain Oil	Formaldehyde	3	A	1.50E-03	lb/ton
Fabric Filter	Natural Gas	Formaldehyde	3	A	1.60E-03	lb/ton
Fabric Filter	Waste Oil	Formaldehyde	4	A	2.00E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Formaldehyde	3	B	2.10E-03	lb/ton
Fabric Filter	Natural Gas	Formaldehyde	3	A	2.10E-03	lb/ton
Fabric Filter	Drain Oil	Formaldehyde	3	A	2.30E-03	lb/ton
Fabric Filter	Drain Oil	Formaldehyde	3	A	2.60E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Formaldehyde	3	A	2.70E-03	lb/ton
Fabric Filter	Natural Gas	Formaldehyde	3	A	4.70E-03	lb/ton
Fabric Filter	Recycled No. 2 Fuel Oil	Formaldehyde	4	A	5.10E-03	lb/ton
Fabric Filter	Natural Gas	Formaldehyde	3	A	8.60E-03	lb/ton
Fabric Filter	Drain Oil	Formaldehyde	3	A	1.00E-02	lb/ton
Fabric Filter	Drain Oil	Formaldehyde	3	A	1.40E-02	lb/ton
		<b>Test Runs:</b>	<b>65</b>	<b>Average:</b>	<b>3.11E-03</b>	<b>lb/ton</b>

The above data is from file b11s01.pdf, Table 4-17, Pages 4-251 through 4-252.



**Table B.4-3 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Condensable (Inorganic) Particulate Matter Emissions Factor Taken From Table 11.1-3**

<b>Control</b>	<b>Fuel Fired</b>	<b>Pollutant</b>	<b>No. of Test Runs</b>	<b>Data Rating</b>	<b>Emissions Factor</b>	<b>Emissions Factor Unit</b>
Venturi Scrubber	Propane	Condensible PM (Inorganic)	3	A	1.20E-03	lb/ton
Fabric Filter	Waste Oil	Condensible PM (Inorganic)	3	A	1.50E-03	lb/ton
Venturi Scrubber	No. 2 Fuel Oil	Condensible PM (Inorganic)	3	C	1.90E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	3	A	2.10E-03	lb/ton
Fabric Filter	Waste Oil	Condensible PM (Inorganic)	3	A	2.20E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Condensible PM (Inorganic)	3	C	2.30E-03	lb/ton
Fabric Filter	Propane	Condensible PM (Inorganic)	3	A	2.30E-03	lb/ton
Fabric Filter	Fuel Oil	Condensible PM (Inorganic)	3	A	2.70E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensible PM (Inorganic)	3	A	3.20E-03	lb/ton
Venturi Scrubber	Natural Gas/Coal	Condensible PM (Inorganic)	3	A	3.30E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	3	A	3.50E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	3	B	3.60E-03	lb/ton
Venturi Scrubber	No. 5 Fuel Oil	Condensible PM (Inorganic)	3	B	3.90E-03	lb/ton
Fabric Filter	No. 4 Fuel Oil	Condensible PM (Inorganic)	2	B	3.90E-03	lb/ton
Venturi Scrubber	Fuel Oil	Condensible PM (Inorganic)	3	A	4.30E-03	lb/ton
Fabric Filter	Propane	Condensible PM (Inorganic)	3	B	5.80E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensible PM (Inorganic)	3	A	6.20E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Condensible PM (Inorganic)	3	A	6.80E-03	lb/ton
Fabric Filter	Propane	Condensible PM (Inorganic)	3	B	7.00E-03	lb/ton
Venturi Scrubber	No. 2 Fuel Oil	Condensible PM (Inorganic)	2	B	7.70E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Condensible PM (Inorganic)	3	A	8.30E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Condensible PM (Inorganic)	3	A	8.30E-03	lb/ton
Venturi Scrubber	No. 2 Fuel Oil	Condensible PM (Inorganic)	3	B	9.30E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Condensible PM (Inorganic)	3	A	1.20E-02	lb/ton
Fabric Filter	Coal/Natural Gas	Condensible PM (Inorganic)	3	A	1.20E-02	lb/ton
Fabric Filter	ND	Condensible PM (Inorganic)	3	B	1.60E-02	lb/ton
Fabric Filter	Coal/Natural Gas	Condensible PM (Inorganic)	3	A	1.60E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensible PM (Inorganic)	3	A	1.70E-02	lb/ton
Venturi Scrubber	No. 5 Fuel Oil	Condensible PM (Inorganic)	3	A	2.00E-02	lb/ton
Fabric Filter	Waste Oil	Condensible PM (Inorganic)	3	A	2.70E-02	lb/ton
		<b>Total Runs:</b>	<b>88</b>	<b>Average:</b>	<b>7.38E-03</b>	<b>lb/ton</b>

The above data is from file b11s01.pdf, Table 4-14, Pages 4-220 through 4-221.

**Table B.4-4 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Condensable (Inorganic) Particulate Matter Emissions Factor Taken From Table 11.1-1**

Control	Fuel Fired	Pollutant	No. of Test Runs	Data Rating	Emissions Factor	Emissions Factor Unit
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	1	C	7.30E-04	lb/ton
Fabric Filter	No.6 Fuel Oil	Condensible PM (Inorganic)	3	A	8.00E-04	lb/ton
Wet Cyclone	Natural Gas	Condensible PM (Inorganic)	2	C	1.00E-03	lb/ton
Wet Scrubber	No.2 Fuel Oil	Condensible PM (Inorganic)	3	A	1.00E-03	lb/ton
Fabric Filter	Propane	Condensible PM (Inorganic)	2	B	1.20E-03	lb/ton
Fabric Filter	No.2 Fuel Oil	Condensible PM (Inorganic)	3	A	1.20E-03	lb/ton
Fabric Filter	NA	Condensible PM (Inorganic)	3	C	1.30E-03	lb/ton
Venturi Scrubber	Natural Gas	Condensible PM (Inorganic)	3	A	1.90E-03	lb/ton
Fabric Filter	Waste Oil	Condensible PM (Inorganic)	3	A	2.10E-03	lb/ton
Fabric Filter	No.2 Fuel Oil	Condensible PM (Inorganic)	3	B	2.50E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	2	B	2.70E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	3	A	3.40E-03	lb/ton
Low-Energy Scrubber	Natural Gas	Condensible PM (Inorganic)	3	B	3.30E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	3	A	3.40E-03	lb/ton
Fabric Filter	No.2 Fuel Oil	Condensible PM (Inorganic)	3	A	3.70E-03	lb/ton
Fabric Filter	No.2 Fuel Oil	Condensible PM (Inorganic)	3	A	3.60E-03	lb/ton
Fabric Filter	No.2 Fuel Oil	Condensible PM (Inorganic)	3	A	3.60E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	3	B	4.20E-03	lb/ton
Fabric Filter	No.2 Fuel Oil	Condensible PM (Inorganic)	3	B	4.20E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	2	B	4.50E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	2	B	4.90E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	3	A	5.30E-03	lb/ton
Wet Scrubber	Natural Gas	Condensible PM (Inorganic)	2	C	6.00E-03	lb/ton
Fabric Filter	No.2 Fuel Oil	Condensible PM (Inorganic)	3	A	8.00E-03	lb/ton
Fabric Filter	ND	Condensible PM (Inorganic)	2	C	1.10E-02	lb/ton
Venturi Scrubber	ND	Condensible PM (Inorganic)	3	C	1.10E-02	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	3	B	1.20E-02	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	3	A	1.60E-02	lb/ton
Venturi Scrubber	No.2 Fuel Oil	Condensible PM (Inorganic)	2	C	1.70E-02	lb/ton
Fabric Filter	ND	Condensible PM (Inorganic)	3	C	1.90E-02	lb/ton
Venturi Scrubber	ND	Condensible PM (Inorganic)	3	C	2.10E-02	lb/ton
Fabric Filter	No.6 Fuel Oil	Condensible PM (Inorganic)	3	A	2.60E-02	lb/ton
Fabric Filter	No.2 Fuel Oil	Condensible PM (Inorganic)	3	A	6.60E-02	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	3	A	6.80E-02	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Inorganic)	6	B	1.20E-01	lb/ton
		<b>Total Runs:</b>	<b>98</b>	<b>Average:</b>	<b>1.32E-02</b>	<b>lb/ton</b>

The above data is from file b11s01.pdf, Table 4-19, Pages 4-261 through 4-262.

**Table B.4-5 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Condensable (Organic) Particulate Matter Emissions Factor Taken From Table 11.1-3**

Control	Fuel Fired	Pollutant	No. of Test Runs	Data Rating	Emissions Factor	Emissions Factor Unit
Fabric Filter	Butane	Condensable PM (Organic)	3	A	3.50E-04	lb/ton
Fabric Filter	Propane	Condensable PM (Organic)	3	B	4.20E-04	lb/ton
Fabric Filter	Waste Oil	Condensable PM (Organic)	3	A	5.90E-04	lb/ton
Fabric Filter	Natural Gas	Condensable PM (Organic)	3	A	7.10E-04	lb/ton
Fabric Filter	Natural Gas	Condensable PM (Organic)	3	A	6.10E-04	lb/ton
Fabric Filter	Propane	Condensable PM (Organic)	3	B	8.10E-04	lb/ton
Fabric Filter	Coal/Natural Gas	Condensable PM (Organic)	3	A	8.30E-04	lb/ton
Fabric Filter	Natural Gas	Condensable PM (Organic)	3	C	1.10E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	2.00E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Condensable PM (Organic)	3	C	2.30E-03	lb/ton
Venturi Scrubber	No. 2 Fuel Oil	Condensable PM (Organic)	3	C	2.60E-03	lb/ton
Venturi Scrubber	No. 2 Fuel Oil	Condensable PM (Organic)	2	B	2.80E-03	lb/ton
Venturi Scrubber	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	2.90E-03	lb/ton
Fabric Filter	Waste Oil	Condensable PM (Organic)	3	A	2.90E-03	lb/ton
Fabric Filter	Waste Oil	Condensable PM (Organic)	3	A	3.20E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	3.30E-03	lb/ton
Fabric Filter	No. 4 Fuel Oil	Condensable PM (Organic)	2	B	3.90E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Condensable PM (Organic)	3	A	4.30E-03	lb/ton
Fabric Filter	Natural Gas	Condensable PM (Organic)	3	B	4.20E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	4.10E-03	lb/ton
Venturi Scrubber	No. 2 Fuel Oil	Condensable PM (Organic)	3	A	4.60E-03	lb/ton
Fabric Filter	Coal/Natural Gas	Condensable PM (Organic)	3	A	5.60E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	5.90E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Condensable PM (Organic)	3	A	6.40E-03	lb/ton
Venturi Scrubber	Propane	Condensable PM (Organic)	3	A	6.30E-03	lb/ton
Venturi Scrubber	Natural Gas/Coal	Condensable PM (Organic)	3	A	6.60E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Condensable PM (Organic)	3	A	1.10E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	1.30E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	1.40E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	1.40E-02	lb/ton
Venturi Scrubber	No. 6 Fuel Oil	Condensable PM (Organic)	11	A	1.40E-02	lb/ton
Venturi Scrubber	Natural Gas	Condensable PM (Organic)	3	A	1.80E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	1.90E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	1.90E-02	lb/ton
Venturi Scrubber	Natural Gas	Condensable PM (Organic)	6	A	2.10E-02	lb/ton
Venturi Scrubber	Propane	Condensable PM (Organic)	3	A	2.20E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	2.60E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensable PM (Organic)	3	A	4.10E-02	lb/ton
Fabric Filter	Fuel Oil	Condensable PM (Organic)	3	A	4.20E-02	lb/ton
Venturi Scrubber	No. 5 Fuel Oil	Condensable PM (Organic)	3	A	5.80E-02	lb/ton
Wet Scrubber	No. 6 Fuel Oil	Condensable PM (Organic)	5	A, B	7.40E-02	lb/ton
		<b>Total Runs:</b>	<b>134</b>	<b>Average:</b>	<b>1.18E-02</b>	<b>lb/ton</b>

The above data is from file b11s01.pdf, Table 4-14, Pages 4-221 through 4-223.

**Table B.4-6 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Condensable (Organic) Particulate Matter Emissions Factor Taken From Table 11.1-1**

<b>Control</b>	<b>Fuel Fired</b>	<b>Pollutant</b>	<b>No. of Test Runs</b>	<b>Data Rating</b>	<b>Emissions Factor</b>	<b>Emissions Factor Unit</b>
Fabric Filter	No. 2 Fuel Oil	Condensible PM (Organic)	3	B	1.20E-05	lb/ton
Fabric Filter	No. 2 Fuel Oil	Condensible PM (Organic)	3	B	1.10E-04	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Organic)	1	C	2.70E-04	lb/ton
Fabric Filter	Propane	Condensible PM (Organic)	2	B	5.60E-04	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Organic)	3	A	8.40E-04	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensible PM (Organic)	3	A	1.20E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Organic)	2	B	1.20E-03	lb/ton
Fabric Filter	Waste Oil	Condensible PM (Organic)	3	A	1.40E-03	lb/ton
Wet Scrubber	No. 6 Fuel Oil	Condensible PM (Organic)	3	A	1.80E-03	lb/ton
Dual Wet Scrubbers	Natural Gas	Condensible PM (Organic)	3	A	1.80E-03	lb/ton
Fabric Filter	ND	Condensible PM (Organic)	3	C	2.10E-03	lb/ton
Wet Scrubber	No. 2 Fuel Oil	Condensible PM (Organic)	3	A	2.30E-03	lb/ton
Venturi Scrubber	Natural Gas	Condensible PM (Organic)	3	A	2.90E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Organic)	3	A	3.90E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Organic)	3	A	3.90E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensible PM (Organic)	3	A	4.50E-03	lb/ton
Venturi Scrubber	Propane	Condensible PM (Organic)	3	A	5.10E-03	lb/ton
Wet Scrubber	Natural Gas	Condensible PM (Organic)	6	A	6.40E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensible PM (Organic)	3	A	6.70E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Organic)	3	A	8.10E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Condensible PM (Organic)	3	A	8.00E-03	lb/ton
Fabric Filter	Natural Gas	Condensible PM (Organic)	2	B	9.00E-03	lb/ton
Wet Scrubber	No. 6 Fuel Oil	Condensible PM (Organic)	3	A	9.10E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Condensible PM (Organic)	3	A	1.80E-02	lb/ton
		<b>Total Runs:</b>	<b>70</b>	<b>Average:</b>	<b>4.13E-03</b>	<b>lb/ton</b>

The above data is from file b11s01.pdf, Table 4-19, Pages 4-262 through 4-263.

**Table B.4-7 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Filterable Particulate Matter Emissions Factor Taken From Table 11.1-3**

Control	Fuel Fired	Pollutant	No. of Test Runs	Data Rating	Emissions Factor	Emissions Factor Unit
Fabric Filter	Butane	Filterable PM	3	A	5.80E-03	lb/ton
Fabric Filter	Coal/Natural Gas	Filterable PM	3	A	9.20E-03	lb/ton
Fabric Filter	Coal/Natural Gas	Filterable PM	3	A	1.20E-02	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	C	8.90E-04	lb/ton
Fabric Filter	Fuel Oil	Filterable PM	3	A	1.20E-03	lb/ton
Fabric Filter	ND	Filterable PM	3	C	1.20E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.20E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	C	1.30E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.40E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.70E-03	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	1.70E-03	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	C	2.00E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.90E-03	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	A	2.00E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	2.20E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	2.30E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	2.60E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	2.70E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	2.60E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.90E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	B	3.00E-03	lb/ton
Fabric Filter	Propane	Filterable PM	3	A	3.30E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	B	3.70E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	3.60E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	3.60E-03	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	C	3.80E-03	lb/ton
Fabric Filter	Propane	Filterable PM	3	A	3.70E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	3.80E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	3.80E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	4.00E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	4.10E-03	lb/ton
Fabric Filter	Propane	Filterable PM	3	A	4.20E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	4.20E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	4.10E-03	lb/ton
Fabric Filter	ND	Filterable PM	3	B	4.30E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	4.30E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	2.30E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	4.60E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	4.60E-03	lb/ton
Fabric Filter	ND	Filterable PM	3	C	4.80E-03	lb/ton
Fabric Filter	No. 5 Fuel Oil	Filterable PM	2	B	4.90E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	5.00E-03	lb/ton
Fabric Filter	No. 4 Fuel Oil	Filterable PM	2	B	5.00E-03	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	5.00E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	C	5.30E-03	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	A	5.20E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	5.30E-03	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	5.30E-03	lb/ton

**Table B.4-7 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Filterable Particulate Matter Emissions Factor Taken From Table 11.1-3**

Control	Fuel Fired	Pollutant	No. of Test Runs	Data Rating	Emissions Factor	Emissions Factor Unit
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	5.60E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	5.60E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	6.00E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	6.00E-03	lb/ton
Fabric Filter	Propane	Filterable PM	3	A	5.90E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	5.90E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	6.30E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	2	B	6.30E-03	lb/ton
Fabric Filter	No. 4 Waste Oil	Filterable PM	3	A	6.50E-03	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	C	7.10E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	7.10E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	7.20E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	1	C	7.30E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	7.30E-03	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	A	7.50E-03	lb/ton
Fabric Filter	Propane	Filterable PM	3	B	7.60E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	2	B	7.70E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	B	7.60E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	2	B	8.10E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	8.80E-03	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	9.10E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	9.20E-03	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	A	9.40E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	9.50E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	9.70E-03	lb/ton
Fabric Filter	No. 4 Fuel Oil	Filterable PM	3	A	9.70E-03	lb/ton
Fabric Filter	Propane	Filterable PM	3	B	9.80E-03	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	C	9.70E-03	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	9.90E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	1.00E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.00E-02	lb/ton
Fabric Filter	Drain Oil & Natural Gas	Filterable PM	3	A	1.00E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	5	A	1.00E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.00E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.00E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	1.00E-02	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	1.00E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.00E-02	lb/ton
Fabric Filter	Fuel Oil	Filterable PM	3	A	1.10E-02	lb/ton
Fabric Filter	ND	Filterable PM	3	C	1.10E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.10E-02	lb/ton
Fabric Filter	Propane	Filterable PM	2	A	1.10E-02	lb/ton
Fabric Filter	No. 4 Fuel Oil	Filterable PM	3	A	1.10E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	2	A	1.10E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	B	1.10E-02	lb/ton
Fabric Filter	Low-Sulfur No. 2 Fuel Oil	Filterable PM	3	A	1.10E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	1.10E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.20E-02	lb/ton

**Table B.4-7 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Filterable Particulate Matter Emissions Factor Taken From Table 11.1-3**

Control	Fuel Fired	Pollutant	No. of Test Runs	Data Rating	Emissions Factor	Emissions Factor Unit
Fabric Filter	No. 4 Fuel Oil	Filterable PM	2	B	1.20E-02	lb/ton
Fabric Filter	No. 4 Fuel Oil	Filterable PM	3	A	1.20E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.20E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.30E-02	lb/ton
Fabric Filter	Propane	Filterable PM	3	B	1.30E-02	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	1.30E-02	lb/ton
Fabric Filter	Coal/Natural Gas	Filterable PM	2	A	1.30E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.40E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.40E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.40E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.40E-02	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	C	1.40E-02	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	1.40E-02	lb/ton
Fabric Filter	Recycled No. 2 Fuel Oil	Filterable PM	3	A	1.50E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.50E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	C	1.50E-02	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	A	1.50E-02	lb/ton
Fabric Filter	Propane	Filterable PM	3	A	1.60E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.60E-02	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	C	1.60E-02	lb/ton
Fabric Filter	Waste Oil	Filterable PM	6	A	1.60E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.60E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	B	1.70E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.70E-02	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	1.70E-02	lb/ton
Fabric Filter	Propane, Natural Gas	Filterable PM	5	B, A	1.70E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	2	C	1.70E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.70E-02	lb/ton
Fabric Filter	No. 5 Fuel Oil	Filterable PM	3	A	1.80E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	1.80E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	B	1.90E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	B	2.10E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	2	B	2.00E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.10E-02	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	2.10E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.20E-02	lb/ton
Fabric Filter	No. 4 Fuel Oil	Filterable PM	3	A	2.30E-02	lb/ton
Fabric Filter	ND	Filterable PM	3	C	2.20E-02	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	2.10E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.40E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	2	B	2.40E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.40E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.30E-02	lb/ton
Fabric Filter	Propane	Filterable PM	3	B	2.50E-02	lb/ton
Fabric Filter	No. 4/6 Fuel Oil	Filterable PM	3	B	2.60E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.70E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	2	B	2.70E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	2.70E-02	lb/ton

**Table B.4-7 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Filterable Particulate Matter Emissions Factor Taken From Table 11.1-3**

<b>Control</b>	<b>Fuel Fired</b>	<b>Pollutant</b>	<b>No. of Test Runs</b>	<b>Data Rating</b>	<b>Emissions Factor</b>	<b>Emissions Factor Unit</b>
Fabric Filter	Coal/Natural Gas	Filterable PM	3	A	2.90E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.70E-02	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	3.00E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	3.30E-02	lb/ton
Fabric Filter	Propane	Filterable PM	2	A	3.20E-02	lb/ton
Fabric Filter	ND	Filterable PM	3	C	5.30E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	2	C	6.40E-02	lb/ton
Fabric Filter	Drain Oil	Filterable PM	3	A	7.70E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	B	1.00E-01	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.10E-01	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	A	1.40E-01	lb/ton
		<b>Total Runs:</b>	<b>455</b>	<b>Average:</b>	<b>1.35E-02</b>	<b>lb/ton</b>

The above data is from file b11s01.pdf, Table 4-14, Pages 4-223 through 4-230.



**Table B.4-8 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Filterable Particulate Matter Emissions Factor Taken From Table 11.1-1**

Control	Fuel Fired	Pollutant	No. of Test Runs	Data Rating	Emissions Factor	Emissions Factor Unit
Fabric Filter	ND	Filterable PM	3	C	2.30E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	2.40E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.60E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.90E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.70E-03	lb/ton
Fabric Filter	ND	Filterable PM	3	B	2.80E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	B	3.10E-03	lb/ton
Fabric Filter	Propane	Filterable PM	3	A	3.30E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	3.40E-03	lb/ton
Fabric Filter	ND	Filterable PM	3	C	3.40E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	2	B	3.70E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	3.90E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	4.60E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	4.70E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	5.30E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	C	5.30E-03	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	C	5.40E-03	lb/ton
Fabric Filter	No. 4 Fuel Oil	Filterable PM	3	A	5.50E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	2	B	5.70E-03	lb/ton
Fabric Filter	Coal/Natural Gas	Filterable PM	2	B	5.70E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	2	B	6.00E-03	lb/ton
Fabric Filter	ND	Filterable PM	3	C	6.40E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	6.40E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	6.50E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	6.80E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	7.00E-03	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	7.60E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	B	7.60E-03	lb/ton
Fabric Filter	Propane	Filterable PM	3	A	7.90E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	8.00E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	B	8.60E-03	lb/ton
Fabric Filter	Propane	Filterable PM	3	A	8.60E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	8.80E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	8.80E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	9.00E-03	lb/ton
Fabric Filter	Reprocessed No. 4 Fuel Oil	Filterable PM	3	A	9.10E-03	lb/ton
Fabric Filter	Natural Gas	Filterable PM	1	C	9.30E-03	lb/ton
Fabric Filter	Propane	Filterable PM	3	A	9.70E-03	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	B	1.00E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.00E-02	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	A	1.10E-02	lb/ton
Fabric Filter	No. 4 Fuel Oil	Filterable PM	3	A	1.10E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.10E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.20E-02	lb/ton
Fabric Filter	Propane	Filterable PM	3	A	1.20E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	2	B	1.20E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.30E-02	lb/ton

**Table B.4-8 AP-42 Chapter 11.1 - Hot Mix Asphalt Plants (Mineral Products Industry), Filterable Particulate Matter Emissions Factor Taken From Table 11.1-1**

<b>Control</b>	<b>Fuel Fired</b>	<b>Pollutant</b>	<b>No. of Test Runs</b>	<b>Data Rating</b>	<b>Emissions Factor</b>	<b>Emissions Factor Unit</b>
Fabric Filter	Natural Gas	Filterable PM	3	A	1.30E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.40E-02	lb/ton
Fabric Filter	Propane	Filterable PM	3	A	1.40E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.40E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.50E-02	lb/ton
Fabric Filter	Coal/Liquid Propane	Filterable PM	3	A	1.60E-02	lb/ton
Fabric Filter	No. 4 Fuel Oil	Filterable PM	3	A	1.60E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.60E-02	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	A	1.70E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.70E-02	lb/ton
Fabric Filter	No. 4 Fuel Oil	Filterable PM	3	B	1.70E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.80E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	1.90E-02	lb/ton
Fabric Filter	Propane	Filterable PM	2	B	2.20E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.10E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.10E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	2.70E-02	lb/ton
Fabric Filter	ND	Filterable PM	3	C	2.80E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	B	2.90E-02	lb/ton
Fabric Filter	ND	Filterable PM	2	C	2.90E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	B	3.30E-02	lb/ton
Fabric Filter	Coal/Propane	Filterable PM	3	A	3.20E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	1	C	3.60E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	B	3.60E-02	lb/ton
Fabric Filter	ND	Filterable PM	3	C	3.70E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	4.40E-02	lb/ton
Fabric Filter	Coal/Propane	Filterable PM	3	A	4.60E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	B	4.60E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	4.80E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	2	C	5.50E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	5.70E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	B	5.70E-02	lb/ton
Fabric Filter	Reprocessed Oil	Filterable PM	6	B, A	6.00E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	6.50E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	8.20E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	8.50E-02	lb/ton
Fabric Filter	No. 6 Fuel Oil	Filterable PM	3	A	8.90E-02	lb/ton
Fabric Filter	Natural Gas	Filterable PM	3	A	9.10E-02	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.00E-01	lb/ton
Fabric Filter	No. 2 Fuel Oil	Filterable PM	3	A	1.10E-01	lb/ton
Fabric Filter	Natural Gas	Filterable PM	9	B	1.70E-01	lb/ton
Fabric Filter	Waste Oil	Filterable PM	3	A	1.80E-01	lb/ton
		<b>Total Runs:</b>	<b>264</b>	<b>Average:</b>	<b>2.54E-02</b>	<b>lb/ton</b>

The above data is from file b11s01.pdf, Table 4-19, Pages 4-263 through 4-267.