

**PM₁₀ BART Short-Term Emission Rates
at the Packaging Corporation of America
Valdosta, Georgia Mill**

| Emission Unit | ISCST3 Modeling ID | Time Period | Maximum Rated Capacity | | Max Fuel Use/time period | | Max Emission Factor | | lb/hour or time period | PM ₁₀ Emission Rate (g/sec) | Basis for Emission Rate |
|---------------------------------------|--------------------|-------------|--------------------------------------|--------------|--------------------------|----------------|---------------------|---------------------|------------------------|--|--|
| C.E. Combination Boiler | CSS | | 243 | MMBtu/hr | | | 0.1093 | lb/MMBtu | | | Based on 2001/2002 emission test data and maximum boiler heat input. |
| 243 MMBtu/hr | | | | | | | | | | | |
| | | | <i>Total 24-hr Maximum Actual</i> | | | | | | <i>637.44</i> | | |
| | | | <i>Maximum Actual Hourly Average</i> | | | | | | <i>26.56</i> | <i>3.35</i> | lb/hr and g/sec emission rates for 24-hour air quality modeling |
| Riley Bark Boiler | CSS | | 360 | MMBtu/hr | | | 0.1093 | lb/MMBtu | | | Based on 2001/2002 emission test data and maximum boiler heat input. |
| 360 MMBtu/hr | | | | | | | | | | | |
| BART Source | | | <i>Total 24-hr Maximum Actual</i> | | | | | | <i>944.35</i> | | |
| | | | <i>Maximum Actual Hourly Average</i> | | | | | | <i>39.35</i> | <i>4.96</i> | lb/hr and g/sec emission rates for 24-hour air quality modeling |
| C.E. Power Boiler Stack | CEPBS | | 1.2333 | Mgal/hr | 31.5252 | Mgal/hr | 21.6 | lb/Mgal #6 Fuel Oil | | | Based on maximum daily fuel oil usage for baseline period and 0.86 PM10/PM ratio |
| | | | | | | | | | | | |
| | | | <i>Total 24-hr Maximum Actual</i> | | | | | | <i>549.83</i> | | |
| | | | <i>Maximum Actual Hourly Average</i> | | | | | | <i>22.91</i> | <i>2.89</i> | lb/hr and g/sec emission rates for 24-hour air quality modeling |
| #1 Recovery Furnace Stack | #1RFS | | 516 | tons BLS/day | 514.84 | tons BLS/24-hr | 13.02 | lb/hr | | | based on the maximum daily total Recovery Furnace BLS usage of 514.84 tons BLS/day and using a ratio of the actual BLS to PTE BLS to adjust the lb/hr emission rate. |
| | | | | | | | | | | | |
| | | | <i>Total 24-hr Maximum Actual</i> | | | | | | <i>311.81</i> | | based on BLS firing for 24-hrs |
| | | | <i>Maximum Actual Hourly Average</i> | | | | | | <i>12.99</i> | <i>1.64</i> | lb/hr and g/sec emission rates for 24-hour air quality modeling |
| #2 Recovery Furnace Stack | #2RFS | | 516 | tons BLS/day | 460.14 | tons BLS/24-hr | 9.66 | lb/hr | | | based on the maximum daily total Recovery Furnace BLS usage of 460.14 tons BLS/day and using a ratio of the actual BLS to PTE BLS to adjust the lb/hr emission rate. |
| | | | | | | | | | | | |
| | | | <i>Total 24-hr Maximum Actual</i> | | | | | | <i>206.77</i> | | based on BLS firing for 24-hrs |
| | | | <i>Maximum Actual Hourly Average</i> | | | | | | <i>8.62</i> | <i>1.09</i> | lb/hr and g/sec emission rates for 24-hour air quality modeling |
| #3 Recovery Furnace Stack | #3RFS | | 679.2 | tons BLS/day | 652.23 | tons BLS/24-hr | 7.79 | lb/hr | | | based on the maximum daily total Recovery Furnace BLS usage of 652.33 tons BLS/day and using a ratio of the actual BLS to PTE BLS to adjust the lb/hr emission rate. |
| BART Source | | | | | | | | | | | |
| | | | <i>Total 24-hr Maximum Actual</i> | | | | | | <i>179.56</i> | | based on BLS firing for 24-hrs |
| | | | <i>Maximum Actual Hourly Average</i> | | | | | | <i>7.48</i> | <i>0.94</i> | lb/hr and g/sec emission rates for 24-hour air quality modeling |
| #1 Smelt Dissolving Tank Stack | #1SDTS | | 516 | tons BLS/day | 514.84 | tons BLS/day | 0.94 | lb/hr | <i>22.50</i> | | 0.94 lb/hr and adjusted using the actual BLS to PTE BLS to adjust the lb/hr emission rate. |
| | | | <i>24-hr Maximum Actual</i> | | | | | | <i>0.94</i> | <i>0.12</i> | lb/hr and g/sec emission rates for 24-hour air quality modeling |
| #2 Smelt Dissolving Tank Stack | #2SDTS | | 516 | tons BLS/day | 460.14 | tons BLS/day | 0.62 | lb/hr | <i>13.22</i> | | 0.62 lb/hr and adjusted using the actual BLS to PTE BLS to adjust the lb/hr emission rate. |
| | | | <i>24-hr Maximum Actual</i> | | | | | | <i>0.55</i> | <i>0.07</i> | lb/hr and g/sec emission rates for 24-hour air quality modeling |
| #3 Smelt Dissolving Tank Stack | #3SDTS | | 679.2 | tons BLS/day | 652.33 | tons BLS/day | 1.58 | lb/hr | <i>36.52</i> | | 1.58 lb/hr and adjusted using the actual BLS to PTE BLS to adjust the lb/hr emission rate. |
| BART Source | | | <i>24-hr Maximum Actual</i> | | | | | | <i>1.52</i> | <i>0.19</i> | lb/hr and g/sec emission rates for 24-hour air quality modeling |
| #4 Lime Kiln Stack | #4LKS | | 499.92 | tons CaO/day | | Mgal/24-hr | 2.78 | lb/hr | | | 2.78 lb/hr and no adjustment for production applied. |
| | | | | | | | | | | | |
| | | | <i>Total 24-hr Maximum Actual</i> | | | | | | <i>66.60</i> | | lb/hr for 24-hours |
| | | | <i>Maximum Actual Hourly Average</i> | | | | | | <i>2.78</i> | <i>0.35</i> | lb/hr and g/sec emission rates for 24-hour air quality modeling |
| Non-Condensable Gas Incinerator Stack | NCGIS | | | | | | | | | | |
| | | | <i>24-hr Maximum Actual</i> | | | | | | <i>0.114</i> | <i>0.014</i> | 7.6 lb/ MM scf and 0.015 MM scf/hr |
| Slaker | SLAKER | | | | | | | | | | |
| BART Source | | | <i>24-hr Maximum Actual</i> | | | | | | <i>1.245</i> | <i>0.157</i> | 0.04 grains/dscf and 3,632 dscf/min flow rate |

Bark and Chip storage piles and the bark and chip handling systems are assumed to be unchanged from baseline period. Similarly, roadway emissions can be considered to be unchanged from the baseline period.