

**Riverside
Toxic Release Inventory
For the Year**

2005

| | | % Ash (fuel) | Coal Heating Value |
|----------------------------------|------------------------|--------------|--------------------|
| Boiler 9 Coal Burned | 379,127.20 tons | 5.37 | 8618 Btu/lb |
| Boiler 8 Coal Burned | 68,531.11 tons | 5.37 | 8618 Btu/lb |
| Boiler 7 Coal Burned | 42,098.03 tons | 5.37 | 8618 Btu/lb |
| Boiler 6 Coal Burned | 3,757.99 tons | 5.37 | 8618 Btu/lb |
| Total Coal | 493,514.33 tons | | |
| Total Ash | 26,501.72 tons | | |
| Fly Ash Generated | 18,465.42 tons | | |
| Bottom Ash Generated = (coal * a | 8,036.30 tons | | |
| Fly Ash Sold | 7,996.27 tons | | |
| Fly Ash shipped to LGS | 10,469.15 tons | | |
| Bottom Ash Sold | 556.60 tons | | |
| Fly Ash Point Source | 0.57 tons | | |
| Fly Ash Fugitive Source | 0.89 tons | | |
| Boiler Stack PM Total | 195.32 tons | | |
| Ash Water Flow | 509.17 million gallons | | |

| Metals | | | | | | | | | | |
|---|----------------|----------------|-----------------|---------------|--------------|------------------|----------------|---------------|-----------------|---------------|
| Chemical | Arsenic | Barium | Chromium | Copper | Lead | Manganese | Mercury | Nickel | Vanadium | Zinc |
| Air Release | Lbs | Lbs | Lbs | Lbs | Lbs | Lbs | Lbs | Lbs | Lbs | Lbs |
| Boiler 9 Coal | 155 | 24 | 120 | 2 | 160 | 180 | 40 | 100 | 0 | 2 |
| Boiler 8 Coal | 20 | 4 | 20 | 0 | 20 | 40 | 0 | 20 | 0 | 0 |
| Boiler 7 Coal | 20 | 3 | 20 | 0 | 20 | 20 | 0 | 20 | 0 | 0 |
| Boiler 6 Coal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fly Ash Point Source Dust Released | 0.1 | 1828.6 | 0.1 | 92.1 | 0.3 | 0.9 | 0 | 0.2 | 462.3 | 97.5 |
| Fly Ash Fugitive Dust Released | 0.2 | 8.3 | 0.2 | 0.4 | 0.4 | 1.5 | 0 | 0.3 | 2.1 | 0.4 |
| Total Air Releases | 196 | 1,868 | 160 | 95 | 201 | 242 | 40 | 140 | 464 | 101 |
| Chemical Emission Factor lbs/ton | | 0.0000630 | | 0.0000056 | | | 0.000104 | | 0.0000000 | 0.0000061 |
| Chemical Concentration lbs/ton coal - wet | 0.001613 | 0.485507 | 0.007033 | 0.0176798 | 0.003721 | 0.025844 | 0.000118 | 0.004691 | 0.0220046 | 0.0142734 |
| Waste Release | | | | | | | | | | |
| Chemical ppm (flyash) | 118.038 | 4667.492 | 115.875 | 235.182 | 226.508 | 819.837 | 0.15025 | 167.936 | 1180 | 248.761 |
| Chemical ppm (bottom ash) | 174.631 | 8001.414 | 189.316 | 265.333 | 100.67 | 1473.331 | 0.25575 | 261.233 | 537 | 189.532 |
| | Lbs | Lbs | Lbs | Lbs | Lbs | Lbs | Lbs | Lbs | Lbs | Lbs |
| Fly Ash | 307 | 104,317 | 1,532 | 5,554 | 1,506 | 5,201 | 8 | 1,059 | 9,536 | 5,543 |
| Bottom Ash | 293 | 132,873 | 1,779 | 3,076 | 129 | 7,191 | 10 | 1,115 | 859 | 1,400 |
| Fly Ash Sold | -133 | -45,174 | -663 | -2,405 | -652 | -2,252 | -4 | -459 | -4,129 | -2,400 |
| Bottom Ash Sold | -20 | -9,203 | -123 | -213 | -9 | -498 | -1 | -77 | -60 | -97 |
| Fly Ash Shipped to LGS | 174 | 59,144 | 868 | 3,149 | 854 | 2,949 | 5 | 601 | 5,406 | 3,143 |
| Check Sums | | | | | | | | | | |
| Total metal in coal -air emission | 600 | 237,737 | 3,311 | 8,630 | 1,636 | 12,512 | 18 | 2,175 | 10,395 | 6,943 |
| Fly Ash metal + Bottom Ash metal | 600 | 237,191 | 3,311 | 8,630 | 1,636 | 12,393 | 18 | 2,175 | 10,395 | 6,943 |
| Landfilled (Fly Ash) | 174 | 59,144 | 868 | 3,149 | 854 | 2,949 | 5 | 601 | 5,406 | 3,143 |
| Impoundment (Bottom Ash) | 273 | 123,671 | 1,656 | 2,863 | 121 | 6,693 | 10 | 1,038 | 800 | 1,303 |
| Total Waste Releases | 447 | 182,814 | 2,524 | 6,012 | 974 | 9,642 | 14 | 1,639 | 6,206 | 4,446 |
| Water Releases | | | | | | | | | | |
| Chemical ppm (ash water) | 0.00000 | 0.23300 | 0.00000 | | 0.00000 | 0.04900 | 0.00000 | 0.00000 | | |
| Water Releases | 0 | 973 | 0 | 0 | 0 | 205 | 0 | 0 | 0 | 0 |
| Total Water Releases | 0 | 973 | 0 | 0 | 0 | 205 | 0 | 0 | 0 | 0 |
| Total Releases All Media | 643 | 185,655 | 2,685 | 6,107 | 1,175 | 10,089 | 54 | 1,779 | 6,671 | 4,547 |
| Total Manufactured | 929 | 284,232 | 4,134 | 11,130 | 2,489 | 14,887 | 62 | 2,774 | 14,989 | 9,444 |
| Total Manufactured (dioxide) | 1,326 | 350,458 | 6,678 | 16,735 | 2,873 | 23,559 | 72 | 4,286 | 24,405 | 14,067 |

| Acid Gases | | | |
|---------------------------------|--------------------------|--------------------------|----------------------|
| Chemical | Hydrochloric Acid | Hydrogen Fluoride | Sulfuric Acid |
| Air Release | Lbs | Lbs | Lbs |
| Boiler 9 Coal | 49,280 | 26,200 | 4,196 |
| Boiler 8 Coal | 8,900 | 4,740 | 735 |
| Boiler 7 Coal | 5,480 | 2,900 | 452 |
| Boiler 6 Coal | 480 | 260 | 40 |
| Total Air Releases | 64,140 | 34,100 | 5,423 |
| Waste Releases | | | |
| No significant releases | | | |
| Total Waste Releases | 0 | 0 | 0 |
| Water Releases | | | |
| No significant releases | | | |
| Total Water Releases | 0 | 0 | 0 |
| Total Releases All Media | 64,140 | 34,100 | 5,423 |
| Total Manufactured | 64,140 | 34,100 | 5,423 |

Dioxin and Dioxin-Like Compounds**Air Release**

Boiler combustion Emission Factor from EPRI 4.66E-05 Lbs/trillion Btu
Grams/Lbs 453.59

Grams

Boiler 9 Coal Burned 0.14
Boiler 8 Coal Burned 0.02
Boiler 7 Coal Burned 0.02
Boiler 6 Coal Burned 0.00
Total Air Releases 0.18

Waste Releases

No significant releases

Total Waste Releases 0.00

Water Releases

No significant releases

Total Water Releases 0.00

Total Releases All Media 0.18

Total Manufactured 0.18