

# Michigan Air Emission Reporting System (MAERS)

## 2001 Calendar Year

| Unit                       | Material Throughput (MMCF) (E3gallon)  | CO (pounds)   | LEAD (pounds) | NOx (pounds)    | PM Fitrble (pounds) | PM Primary (pounds) | PM Total (pounds) | PM10 Fitrble (pounds) | PM2.5 Fitrble (pounds) | SO2 (pounds) | Sox (pounds) | VOC (pounds) | TOC (pounds) | TNMOC (pounds) | PM (pounds) | PM 10 (pounds) | Ethylene Oxide (pounds) |
|----------------------------|--|---|---------------|-----------------|---------------------|---------------------|-------------------|-----------------------|------------------------|--------------|--------------|--------------|--------------|----------------|-------------|----------------|-------------------------|
| <b>Boiler #5</b>           |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <i>Natural Gas</i>         | 118.18   | 9927.12   | 0.06          | 18046.09        |                     | 898.17              |                   |                       |                        | 0.03         |              | 649.99       |              |                |             |                |                         |
| <b>Boiler #6</b>           |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <i>Fuel Oil</i>            | 278.16   | <b>77.33</b>  | 0.35          | 2781.60         | 556.32              |                     |                   | 300.41                | 230.87                 | <b>40.60</b> |              |              |              | 94.57          |             |                |                         |
| <i>Natural Gas</i>         | 446.58   | <b>4546.18</b>  | 0.22          | <b>25901.64</b> |                     | 3394.01             |                   |                       |                        | 0.11         |              | 2456.19      |              |                |             |                |                         |
| <b>Hoover Boiler #3</b>    |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <i>Natural Gas</i>         | 47.53  | 3992.52   | 0.02          | 4753.00         |                     | 361.23              |                   |                       |                        | 0.01         |              | 261.42       |              |                |             |                |                         |
| <b>Hoover Boiler #4</b>    |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <i>Natural Gas</i>         | 47.53  | 3992.52   | 0.02          | 4753.00         |                     | 361.23              |                   |                       |                        | 0.01         |              | 261.42       |              |                |             |                |                         |
| <b>Outlying Boilers</b>    |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <i>Natural Gas</i>         | 515.25   | 43281.00  | 0.26          | 51525.00        |                     | 3915.90             |                   |                       |                        | 309.15       |              | 2833.88      |              |                |             |                |                         |
| <b>Crematorium</b>         |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| * <i>Donations</i>         | 15.63  | 156.30  |               | 46.89           | 109.41              |                     |                   | 73.46                 |                        |              | 39.08        | 46.89        |              |                |             |                |                         |
| <i>Natural Gas</i>         | 4.47   | <b>No Emission Factors Listed - Used zero (0) per Glen Erickson</b> |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <b>Animal Incinerator</b>  |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| * <i>Animal Remains</i>    | 0.02   | 0.08  | 0.00          | 0.10            |                     |                     |                   |                       |                        |              | 0.15         | 0.20         |              |                | 0.09        | 0.12           |                         |
| <i>Note:</i>               | Used the previous years emission factors and pollutants for the animal remains per Glen Erickson. Attached explanation to submittal. |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <i>Natural Gas</i>         | 0.02   | <b>No Emission Factors Listed - Used zero (0) per Glen Erickson</b> |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <b>Miscellaneous Units</b> |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <i>Natural Gas</i>         | 351.90   | 7038.00   |               | 35190.00        | 1055.70             |                     |                   | 1055.70               |                        |              | 211.14       | 1865.07      |              |                |             |                |                         |
| <b>Boilers #1 and #2</b>   |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <i>Fuel Oil</i>            | 656.03   | 3280.15   | 0.83          | 15744.72        | 1312.06             |                     |                   | 708.51                | 544.50                 | 2794.69      |              |              |              | 223.05         |             |                |                         |
| <i>Natural Gas</i>         | 628.31   | 52778.04  | 0.31          | <b>89848.33</b> |                     | 4775.16             |                   |                       |                        | 0.15         |              | 3455.71      |              |                |             |                |                         |
| <b>Boilers #3 and #4</b>   |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <i>Fuel Oil</i>            | <b>NO FUEL OIL BURNED</b>  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <i>Natural Gas</i>         | 705.95   | 59299.80  | 0.35          | 134130.50       |                     | 5365.22             |                   |                       |                        | 0.17         |              | 3882.73      |              |                |             |                |                         |
| <b>Cogeneration</b>        |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| <i>Fuel Oil</i>            | 15.49  | 104.09  |               | 1513.37         |                     |                     | 132.28            | 132.28                |                        |              | 65.06        |              | 36.87        |                |             |                |                         |
| <i>Natural Gas</i>         | 1760.86  | <b>35851.11</b>   |               | <b>53776.66</b> |                     | 11850.59            |                   |                       |                        | 675.33       |              | 3771.76      |              |                |             |                |                         |
| <b>EtO Sterilizers</b>     |  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                |                         |
| * <i>Unit #4</i>           | 2.9  |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                | 580                     |
| * <i>Unit #5</i>           | 2.23   |   |               |                 |                     |                     |                   |                       |                        |              |              |              |              |                |             |                | 446                     |

\* Material throughput in tons.

Crematorium donations = number of donations \* .01789 mmcf/donation.

Bold numbers figured from stack tests.

Animal incinerator gas usage is estimate gas usage from the crematory; 4-5 hours per donation = .01789 mmcf