



Title: Reporting Incinerator CEM

Area: Manufacturing

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| Day                       |                     |               | 1       | 2       | 3       | 4       | 5       | 6       | 7      | 8       | 9      | 10     | 11      | 12     | 13     | 14     | 15      | 16      | 17      | 18      |
|---------------------------|---------------------|---------------|---------|---------|---------|---------|---------|---------|--------|---------|--------|--------|---------|--------|--------|--------|---------|---------|---------|---------|
| Running time              | Residue             | h             | 22      | 24      | 21      | 24      | 24      | 22.5    | 20.5   | 24      | 15     | 8.5    | 23      | 8.5    | 3      | 8      | 24      | 24      | 23      | 24      |
|                           | Gas                 | h             | 1.5     | 0       | 3       | 0       | 0       | 1.5     | 4      | 0       | 9      | 15.5   | 1       | 15.5   | 20     | 14.5   | 0       | 0       | 1       | 0       |
|                           | Residue & gas       | h             | 0       | 0       | 0       | 0       | 0       | 0       | 0.5    | 0       | 0.5    | 1.5    | 0       | 1.5    | 0.5    | 1.5    | 0       | 0       | 0       | 0       |
|                           | Idle                | h             | 0.5     | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0.5    | 1.5    | 0       | 1.5    | 1.5    | 3      | 0       | 0       | 0       | 0       |
| Total flow                | Residue             | kg            | 10767.5 | 12000.2 | 10349.8 | 11996.7 | 12000.5 | 11291.8 | 9815.3 | 11141.2 | 6230.2 | 2774.8 | 11052.5 | 3240.3 | 895.7  | 3179.7 | 12278.2 | 12672.5 | 12034.8 | 12719.8 |
|                           | Gas                 | m3            | 217.3   | 0       | 417.2   | 0       | 0       | 188     | 546    | 0       | 1151.2 | 2040.7 | 138.7   | 2066.3 | 2338.5 | 1780.2 | 0       | 0       | 148.3   | 0       |
|                           | Air                 | m3            | 151480  | 157934  | 149958  | 152512  | 151884  | 147200  | 145875 | 140071  | 133142 | 125154 | 146360  | 133276 | 134466 | 135206 | 153032  | 165763  | 162615  | 164214  |
| NOx (normalised)          | Min                 | mg/m3         | 118.7   | 279     | 39.7    | 185     | 208     | 221.3   | 353.7  | 203.7   | 69     | 99.7   | 189     | 153    | 351.3  | 85.7   | 179.3   | 273.7   | 145     | 125.3   |
|                           | Ave                 | mg/m3         | 321.7   | 329     | 345.1   | 218.6   | 242.8   | 281.6   | 532.1  | 438     | 518.7  | 405.3  | 323.1   | 378.6  | 546.6  | 493.5  | 228.9   | 340.7   | 251.3   | 208.6   |
|                           | Max                 | mg/m3         | 631.7   | 404.7   | 860.7   | 290     | 306.7   | 375     | 984.3  | 973     | 793    | 812.3  | 896     | 826.3  | 741.7  | 831.7  | 321.7   | 406     | 1020.3  | 334     |
|                           | Exceeds daily ELV ? | [ 400 mg/m3 ] | N       | N       | N       | N       | N       | Y       | Y      | Y       | Y      | N      | N       | Y      | Y      | N      | N       | N       | N       | N       |
| CO (normalised)           | Min                 | mg/m3         | -7      | -6.5    | -6.9    | -6.7    | -7.1    | -7      | -7.1   | -7      | -6.9   | -7.1   | -7      | -7.1   | -6.5   | -6.7   | -7.1    | -7.8    | -8      | -7.9    |
|                           | Ave                 | mg/m3         | -6.4    | -6.5    | -6.4    | -6.5    | -6.6    | -6.6    | -6.4   | -6.7    | -5.7   | -4.6   | -6.9    | -5.3   | -3.5   | -6.1   | -6.6    | -7.1    | -6.8    | -6.8    |
|                           | Max                 | mg/m3         | 0       | 0       | 0       | 0       | 0       | 0       | 1.2    | 0       | 1.8    | 2.4    | 0       | 0.2    | 0.4    | 0      | 0       | 0       | 0.8     | 0       |
|                           | 30m ELV exceedances | [ 100 mg/m3 ] | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0      | 0       | 0       | 0       | 0       |
| Particulates (normalised) | Min                 | mg/m3         | 2.6     | 5.7     | 1.7     | 5.6     | 5.7     | 6       | 4.2    | 7       | 2.3    | 0.7    | 1.6     | 2.8    | 2.4    | 0.9    | 1.1     | 7.6     | 3.7     | 7.7     |
|                           | Ave                 | mg/m3         | 6       | 5.9     | 5.7     | 5.9     | 6       | 6.5     | 6.8    | 7.4     | 6.6    | 2.1    | 5.6     | 5.6    | 4.4    | 2      | 4.8     | 7.8     | 7.6     | 8       |
|                           | Max                 | mg/m3         | 6.5     | 6.1     | 6       | 6.2     | 6.3     | 6.8     | 7.5    | 7.8     | 7.8    | 4.5    | 6.9     | 6.9    | 5.9    | 3.9    | 7.8     | 7.9     | 8       | 8.3     |
|                           | 30m ELV exceedances | [ 30 mg/m3 ]  | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0      | 0       | 0       | 0       | 0       |
| VOC (normalised)          | Min                 | mg/m3         | 0.3     | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0      | 0       | 0       | 0       | 0       |
|                           | Ave                 | mg/m3         | 0.8     | 0.4     | 0.6     | 0.1     | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0      | 0       | 0       | 0       | 0       |
|                           | Max                 | mg/m3         | 1.4     | 1.1     | 4.6     | 0.5     | 0.2     | 0.4     | 1.2    | 0       | 0      | 0      | 0       | 0      | 0      | 0      | 0       | 0       | 1.8     | 0       |
|                           | 30m ELV exceedances | [ 20 mg/m3 ]  | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0      | 0       | 0       | 0       | 0       |
| Exceeds daily ELV ?       |                     | [ 10 mg/m3 ]  | N       | N       | N       | N       | N       | N       | N      | N       | N      | N      | N       | N      | N      | N      | N       | N       | N       | N       |

NOTES

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| Day                       |                     |               | 19     | 20     | 21     | 22     | 23     | 24     | 25      | 26      | 27      | 28      | TOTALS        |
|---------------------------|---------------------|---------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------------|
| Running time              | Residue             | h             | 18     | 24     | 22     | 12.5   | 15     | 24     | 21.5    | 22.5    | 24      | 24      | 550.5         |
|                           | Gas                 | h             | 8      | 0      | 2.5    | 12     | 7.5    | 0      | 3       | 2       | 0       | 0       | 121.5         |
|                           | Residue & gas       | h             | 2      | 0      | 1      | 0.5    | 1      | 0      | 0.5     | 0.5     | 0       | 0       | 11.5          |
|                           | Idle                | h             | 0      | 0      | 0.5    | 0      | 2.5    | 0      | 0       | 0       | 0       | 0       | 11.5          |
| Total flow                | Residue             | kg            | 6317.7 | 9624.5 | 8841   | 5247.8 | 6628.7 | 11972  | 10844.2 | 12132.2 | 13203.7 | 13201.7 | 264.5 tonnes  |
|                           | Gas                 | m3            | 985.3  | 0      | 276.2  | 1657.2 | 1030.8 | 0      | 374.3   | 227.3   | 0       | 0       | 15584 m3      |
|                           | Air                 | m3            | 122661 | 130633 | 135249 | 129372 | 142359 | 149524 | 156722  | 167041  | 165113  | 166119  | 4114935 m3    |
| NOx (normalised)          | Min                 | mg/m3         | 188.7  | 99.3   | 24.7   | 121.3  | 92.7   | 86.3   | 97      | 190     | 112.7   | 128.7   |               |
|                           | Ave                 | mg/m3         | 479.4  | 252.1  | 239.4  | 400.7  | 324.2  | 218.8  | 183     | 245.9   | 134.3   | 169.8   |               |
|                           | Max                 | mg/m3         | 1130   | 659    | 550.7  | 729.3  | 713    | 497.3  | 409     | 388.3   | 357     | 252.3   |               |
|                           | Exceeds daily ELV ? | [ 400 mg/m3 ] | Y      | N      | N      | Y      | N      | N      | N       | N       | N       | N       | 8 exceedances |
| CO (normalised)           | Min                 | mg/m3         | -7     | -7.4   | -7.6   | -7.4   | -8     | -8.3   | -8      | -8      | -8      | -7.7    |               |
|                           | Ave                 | mg/m3         | -5.9   | -7.1   | -7     | -6.4   | -6.8   | -7.9   | -7.5    | -7.5    | -7.6    | -6.9    |               |
|                           | Max                 | mg/m3         | 1.1    | 0      | 1.7    | 0      | 0      | 0      | 0       | 0       | 0       | 0       |               |
|                           | 30m ELV exceedances | [ 100 mg/m3 ] | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0 exceedances |
|                           | Exceeds daily ELV ? | [ 50 mg/m3 ]  | N      | N      | N      | N      | N      | N      | N       | N       | N       | N       | 0 exceedances |
| Particulates (normalised) | Min                 | mg/m3         | 2.5    | 5.9    | 1.4    | 4.3    | 2.8    | 8.2    | 3.4     | 3.3     | 7.8     | 7.7     |               |
|                           | Ave                 | mg/m3         | 6.2    | 6.6    | 6.4    | 6.9    | 6.8    | 8.5    | 8.2     | 8.1     | 8.1     | 8.1     |               |
|                           | Max                 | mg/m3         | 8.6    | 7.8    | 7.1    | 7.9    | 8.1    | 8.9    | 10      | 10.4    | 9.9     | 9.6     |               |
|                           | 30m ELV exceedances | [ 30 mg/m3 ]  | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0 exceedances |
|                           | Exceeds daily ELV ? | [ 10 mg/m3 ]  | N      | N      | N      | N      | N      | N      | N       | N       | N       | N       | 0 exceedances |
| VOC (normalised)          | Min                 | mg/m3         | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       |               |
|                           | Ave                 | mg/m3         | 0.2    | 0      | 0      | 0.5    | 0.1    | 0.1    | 0.1     | 0.2     | 0       | 0       |               |
|                           | Max                 | mg/m3         | 2.1    | 0      | 0.8    | 1.7    | 0.7    | 0.5    | 0.8     | 0.7     | 0.1     | 0       |               |
|                           | 30m ELV exceedances | [ 20 mg/m3 ]  | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0 exceedances |
|                           | Exceeds daily ELV ? | [ 10 mg/m3 ]  | N      | N      | N      | N      | N      | N      | N       | N       | N       | N       | 0 exceedances |

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