

## PM 2.5 MONITORING ANNUAL SUMMARY\*

SPRINGFIELD CITY HALL - 2018

24 HOUR AVERAGE CONCENTRATION,  $\mu\text{g}/\text{m}^3$ , LTP

| DAY | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG  | SEP  | OCT  | NOV  | DEC  |
|-----|------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| 1   |      | 3.9 |     |     |     |     | 1.9 |      |      |      |      |      |
| 2   | 13.2 |     |     | 4.0 | 6.5 | 4.5 |     |      |      |      |      |      |
| 3   |      |     | 2.2 |     |     |     |     |      |      |      |      |      |
| 4   |      |     |     |     |     |     |     |      |      |      | 5.8  | 10.8 |
| 5   |      |     |     |     |     |     |     |      | 18.2 | 5.8  |      |      |
| 6   |      |     |     |     |     |     |     | 5.1  |      |      |      |      |
| 7   |      | 8.0 |     |     |     | 3.2 | 3.7 |      |      |      |      |      |
| 8   | 11.4 |     |     | 3.8 | 5.5 |     |     |      |      |      |      |      |
| 9   |      |     | 2.0 |     |     |     |     |      |      |      |      |      |
| 10  |      |     |     |     |     |     |     |      |      |      | 18.1 |      |
| 11  |      |     |     |     |     |     |     |      | 4.2  | 5.2  |      |      |
| 12  |      |     |     |     |     |     |     | 3.8  |      |      |      |      |
| 13  |      | 9.8 |     |     |     | 3.2 | 8.6 |      |      |      |      |      |
| 14  | 11.8 |     |     | 6.1 | 4.5 |     |     |      |      |      |      |      |
| 15  |      |     | 2.1 |     |     |     |     |      |      |      |      |      |
| 16  |      |     |     |     |     |     |     |      |      |      | 12.2 | 4.6  |
| 17  |      |     |     |     |     |     |     |      | 2.9  | 12.1 |      |      |
| 18  |      |     |     |     |     |     |     | 10.3 |      |      |      |      |
| 19  |      | 4.5 |     |     |     | 8.1 | 3.8 |      |      |      |      |      |
| 20  | 1.9  |     |     | 4.9 | 4.7 |     |     |      |      |      |      |      |
| 21  |      |     | 4.6 |     |     |     |     |      |      |      |      |      |
| 22  |      |     |     |     |     |     |     |      |      |      | 1.5  | 4.5  |
| 23  |      |     |     |     |     |     |     |      | 6.0  | 10.1 |      |      |
| 24  |      |     |     |     |     |     |     | 4.5  |      |      |      |      |
| 25  |      | 2.5 |     |     |     | 2.0 | 9.3 |      |      |      |      |      |
| 26  | 1.9  |     |     | 6.6 | 2.9 |     |     |      |      |      |      |      |
| 27  |      |     | 3.2 |     |     |     |     |      |      |      |      |      |
| 28  |      |     |     |     |     |     |     |      |      |      | 11.8 | 4.8  |
| 29  |      |     |     |     |     |     |     |      | 7.9  | 5.8  |      |      |
| 30  |      |     |     |     |     |     |     | 2.0  |      |      |      |      |
| 31  |      |     |     |     |     |     | 6.7 |      |      |      |      |      |

| MONTH |        |        |        |        |        |        |        |        |        |        |        |       |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| NCAP  | 5      | 5      | 5      | 5      | 5      | 5      | 6      | 5      | 5      | 5      | 5      | 4     |
| %CAP  | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 80.0% |
| MEAN  | 8.0    | 5.7    | 2.8    | 5.1    | 4.8    | 4.2    | 5.7    | 5.1    | 7.8    | 7.8    | 9.9    | 6.2   |
| MAX   | 13.2   | 9.8    | 4.6    | 6.6    | 6.5    | 8.1    | 9.3    | 10.3   | 18.2   | 12.1   | 18.1   | 10.8  |

| QUARTER |  | Q1     |  | Q2     |  | Q3     |  | Q4    |
|---------|--|--------|--|--------|--|--------|--|-------|
| NCAP    |  | 15     |  | 15     |  | 16     |  | 14    |
| %CAP    |  | 100.0% |  | 100.0% |  | 100.0% |  | 93.3% |
| MEAN    |  | 5.5    |  | 4.7    |  | 6.2    |  | 8.1   |

| ANNUAL   |       |      |      |      |      | Site Statistics |      |      |      |       |      |
|----------|-------|------|------|------|------|-----------------|------|------|------|-------|------|
| NCAP     | 60    | HIGH | 18.2 | 6th  | 11.8 | Year            | 2014 | 2015 | 2016 | 2017  | 2018 |
| %NCAP    | 98.4% | 2nd  | 18.1 | 7th  | 11.8 | Annual Mean     | 6.4  | 6.3  | 4.7  | 12.1  | 6.1  |
| YMEAN    | 6.1   | 3rd  | 13.2 | 8th  | 11.4 | Annual High     | 35.6 | 54.0 | 10.4 | 286.8 | 18.2 |
| QYMEAN   | 6.1   | 4th  | 12.2 | 9th  | 10.8 | Annual 98 %-ile | 14   | 13   | 9    | 41    | 18   |
| 98 %-ile | 18.1  | 5th  | 12.1 | 10th | 10.3 | 3 Year 98 %-ile | 15   | 15   | 12   | 21    | 23   |

\*Includes Wildfire Data - If data causes violation of NAAQS, LRAPA will apply for exception to exclude data