

# PM 2.5 MONITORING ANNUAL SUMMARY

HIGHWAY 99 - 2008

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   | 18.0 |      | 4.3  |      |     |      |     | 3.3  |      |      |      |      |
| 2   |      |      |      |      |     | 5.2  | 8.5 |      |      |      | 4.1  | 6.7  |
| 3   |      | 6.6  |      | 10.1 | 7.6 |      |     |      | 7.0  | 9.5  |      |      |
| 4   | 2.7  |      | 7.5  |      |     |      |     | 8.8  |      |      |      |      |
| 5   |      |      |      |      |     | 2.9  | 3.0 |      |      |      | 6.7  | 23.4 |
| 6   |      | 4.1  |      | 1.5  | 7.7 |      |     |      | 5.0  | 3.5  |      |      |
| 7   | 3.7  |      | 6.0  |      |     |      |     | 5.0  |      |      |      |      |
| 8   |      |      |      |      |     | 3.5  | 8.1 |      |      |      | 6.7  | 11.7 |
| 9   |      | 4.2  |      | 2.3  | 8.2 |      |     |      | 8.8  | 5.8  |      |      |
| 10  | 3.3  |      | 5.5  |      |     |      |     | 2.6  |      |      |      |      |
| 11  |      |      |      |      |     | 5.2  | 6.3 |      |      |      | 3.9  | 20.1 |
| 12  |      | 8.4  |      | 9.3  | 6.3 |      |     |      | 8.3  | 8.9  |      |      |
| 13  | 6.7  |      | 2.7  |      |     |      |     | 5.8  |      |      |      |      |
| 14  |      |      |      |      |     | 5.0  |     |      |      |      |      | 5.4  |
| 15  |      | 24.0 |      | 4.8  | 7.0 |      |     |      | 16.2 | 11.9 |      |      |
| 16  | 16.3 |      | 5.0  |      |     |      |     | 10.0 |      |      |      |      |
| 17  |      |      |      |      |     | 4.3  | 7.6 |      |      |      |      | 15.5 |
| 18  |      | 23.8 |      | 5.5  | 9.5 |      |     |      | 10.5 |      |      |      |
| 19  | 7.0  |      | 7.3  |      |     |      |     | 4.3  |      |      |      |      |
| 20  |      |      |      |      |     | 5.9  | 7.4 |      |      |      | 7.8  | 5.1  |
| 21  |      | 19.7 |      | 4.4  | 1.4 |      |     |      |      | 11.5 |      |      |
| 22  | 19.3 |      | 10.5 |      |     |      |     | 6.3  |      |      |      |      |
| 23  |      |      |      |      |     | 4.8  | 5.9 |      |      |      | 10.6 | 23.1 |
| 24  |      | 10.0 |      | 5.0  | 3.9 |      |     |      | 7.1  | 17.4 |      |      |
| 25  | 30.8 |      | 7.4  |      |     |      |     | 2.8  |      |      |      |      |
| 26  |      |      |      |      |     | 5.3  | 3.0 |      |      |      | 10.6 | 3.6  |
| 27  |      | 7.5  |      | 7.6  | 3.7 |      |     |      | 9.9  | 25.3 |      |      |
| 28  | 3.0  |      | 3.0  |      |     |      |     | 6.7  |      |      |      |      |
| 29  |      |      |      |      |     | 32.4 | 3.4 |      |      |      | 8.3  | 4.4  |
| 30  |      |      |      | 3.9  | 5.8 |      |     |      | 8.8  | 20.2 |      |      |
| 31  | 3.4  |      | 3.8  |      |     |      |     | 4.5  |      |      |      |      |

| MONTH |        |        |        |        |        |        |       |        |       |       |       |        |
|-------|--------|--------|--------|--------|--------|--------|-------|--------|-------|-------|-------|--------|
| NCAP  | 11     | 9      | 11     | 10     | 10     | 10     | 9     | 11     | 9     | 9     | 8     | 10     |
| %CAP  | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 90.0% | 100.0% | 90.0% | 90.0% | 80.0% | 100.0% |
| MEAN  | 10.4   | 12.0   | 5.7    | 5.4    | 6.1    | 7.5    | 5.9   | 5.5    | 9.1   | 12.7  | 7.3   | 11.9   |
| MAX   | 30.8   | 24.0   | 10.5   | 10.1   | 9.5    | 32.4   | 8.5   | 10.0   | 16.2  | 25.3  | 10.6  | 23.4   |

| QUARTER | Q1     |  |  | Q2    |  |  | Q3    |  |  | Q4    |  |  |
|---------|--------|--|--|-------|--|--|-------|--|--|-------|--|--|
| NCAP    | 31     |  |  | 30    |  |  | 29    |  |  | 27    |  |  |
| %CAP    | 100.0% |  |  | 96.8% |  |  | 93.5% |  |  | 90.0% |  |  |
| MEAN    | 9.2    |  |  | 6.3   |  |  | 6.7   |  |  | 10.8  |  |  |

| ANNUAL   | Site Statistics |      |      |      |      |                 |      |      |      |      |      |
|----------|-----------------|------|------|------|------|-----------------|------|------|------|------|------|
| NCAP     | 117             | HIGH | 32.4 | 6th  | 23.4 | Year            | 2004 | 2005 | 2006 | 2007 | 2008 |
| %NCAP    | 95.9%           | 2nd  | 30.8 | 7th  | 23.1 | Annual Mean     |      |      |      | 8.3  | 8.3  |
| YMEAN    | 8.2             | 3rd  | 25.3 | 8th  | 20.2 | Annual High     |      |      |      | 53.5 | 32.4 |
| QYMEAN   | 8.3             | 4th  | 24.0 | 9th  | 20.1 | Annual 98 %-ile |      |      |      | 34   | 25   |
| 98 %-ile | 25.3            | 5th  | 23.8 | 10th | 19.7 | 3 Year 98 %-ile |      |      |      |      |      |