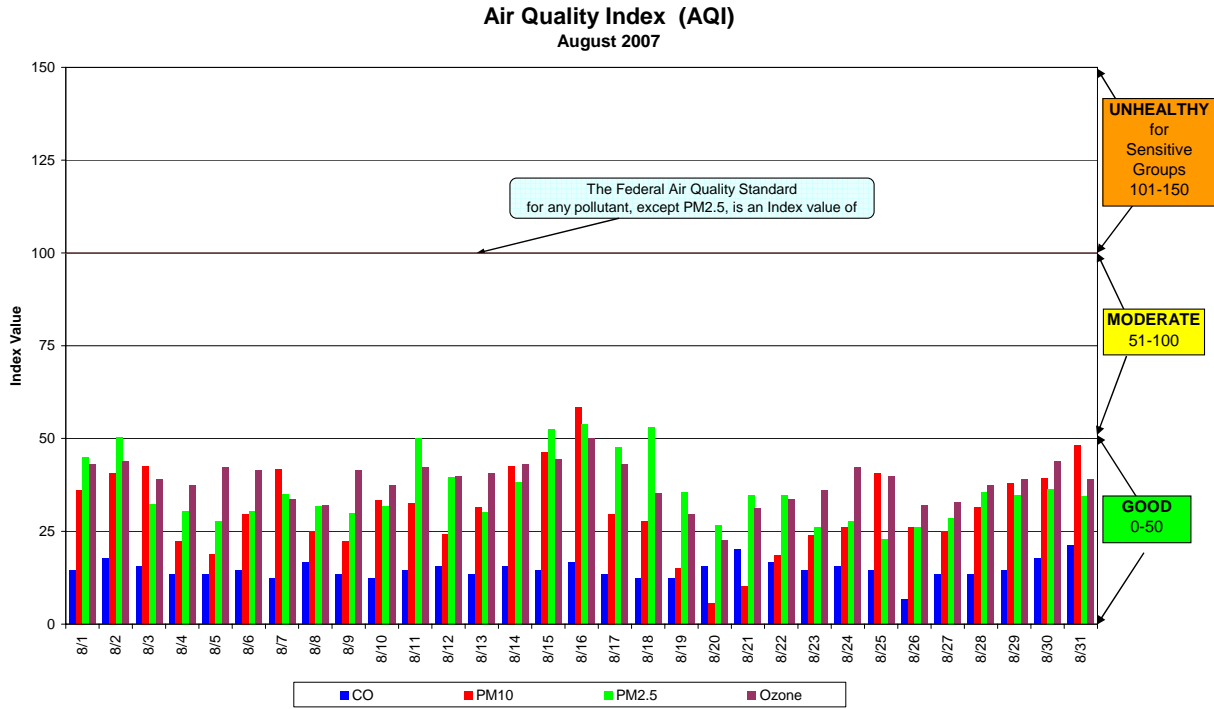


# Air Quality Report August 2007

The chart below shows the daily maximum Air Quality Index (AQI) for August 2007. Carbon Monoxide (CO), particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), and ozone (O<sub>3</sub>) are the criteria air pollutants defined by the US EPA that are monitored in the Spokane area. Air quality information is updated hourly on the Spokane Regional Clean Air Agency (SRCAA) web page ([http://www.spokanecleanair.org/air\\_quality.asp](http://www.spokanecleanair.org/air_quality.asp)). There were no measured exceedances of federal air quality standards in August.



The following tables contain the maximum AQI values for each pollutant for August and for the year to date. A table summarizing the year to date daily AQIs by category follows on the next page.

### Maximum for this reporting period

| Pollutant         | AQI/Concentration         | Location                     | Date    |
|-------------------|---------------------------|------------------------------|---------|
| CO                | 21/1.9 ppm                | 3 <sup>rd</sup> & Washington | 8/31/07 |
| PM <sub>10</sub>  | 59/71 µg/m <sup>3</sup>   | Freya & Ferry                | 8/16/07 |
| PM <sub>2.5</sub> | 54/17.4 µg/m <sup>3</sup> | Monroe & College             | 8/16/07 |
| O <sub>3</sub>    | 50/0.064 ppm              | Greenbluff                   | 8/16/07 |

### Maximum for the current year

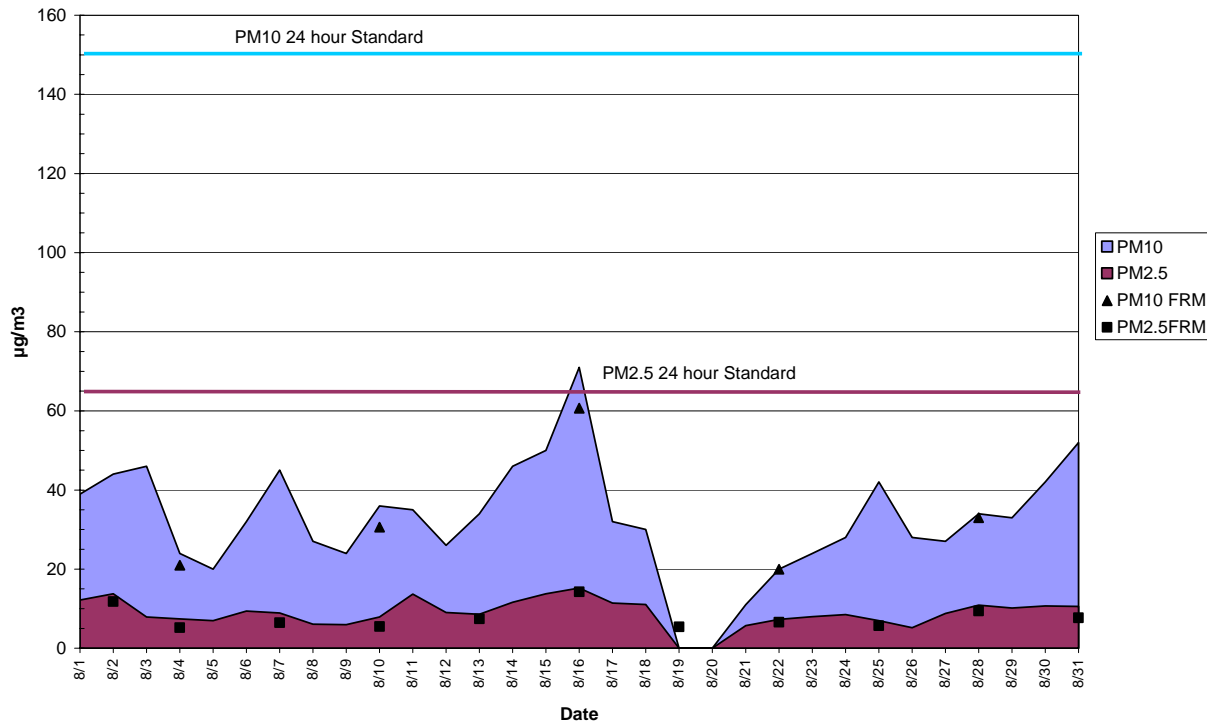
| Pollutant         | AQI/Concentration       | Location                     | Date    |
|-------------------|-------------------------|------------------------------|---------|
| CO                | 34/3.1 ppm              | 3 <sup>rd</sup> & Washington | 1/19/07 |
| PM <sub>10</sub>  | 68/89 µg/m <sup>3</sup> | Freya & Ferry                | 7/13/07 |
| PM <sub>2.5</sub> | 79/30 µg/m <sup>3</sup> | Freya & Ferry                | 1/15/07 |
| O <sub>3</sub>    | 70/0.073 ppm            | Greenbluff                   | 6/1/07  |

### AQI Summary as of August 31, 2007

| Category                                    | Number of Days<br>This Year | Last Year to Date |
|---------------------------------------------|-----------------------------|-------------------|
| Good (0-50)                                 | 211                         | 209               |
| Moderate (51-100)                           | 32                          | 34                |
| Unhealthy for Sensitive Groups<br>(101-150) | 0                           | 0                 |
| Unhealthy (151-200)                         | 0                           | 0                 |
| Very Unhealthy (201-300)                    | 0                           | 0                 |
| Hazardous (>300)                            | 0                           | 0                 |

The next chart compares the mass concentrations of PM<sub>10</sub> and PM<sub>2.5</sub> measured at the Freya & Ferry monitoring site. The site is located in a commercial/light industrial area on the eastern side of the City of Spokane. The data shown in solid colors were obtained using Tapered Element Oscillating Microbalance (TEOM) continuous analyzers. The TEOM is an automated method and provides “real time” data, which SRCAA uses in its day-to-day programs, e.g., air quality forecasting and burning curtailment. The manually-operated Federal Reference Method (FRM) is the “gold-standard” for measurement of the 24-hour average particulate matter concentration and meets the requirements for demonstrating attainment of federal air quality standards. The accuracy of the TEOM sample data can be verified by comparison with co-located FRM data. The correlation ( $r^2$ ) between the TEOM and FRM data for August was 0.99 for PM<sub>10</sub> and 0.97 for PM<sub>2.5</sub>.

**Freya & Ferry Particulate Matter Data**  
24hr Average Daily Maximum



The chart below shows the ozone data for August measured at Greenbluff in the foothills of Mt. Spokane and Turnbull Wildlife Refuge southwest of the metropolitan area. The ozone data are plotted with the daily maximum temperature data from the Freya & Ferry site. Temperature is a good surrogate for sunlight in the photochemical reaction that forms ozone. Ozone is monitored May 1 through September 30.

**Eight Hour Maximum Ozone Concentrations for Spokane  
Greenbluff & Turnbull Sites (with daily maximum temperature)**



The table below summarizes the air quality data for August from all of the analyzers operated in Spokane County. The CO and ozone data are 8-hour maximums in parts per million (ppm) and the PM data are 24-hour averages in micrograms per cubic meter of air ( $\mu\text{g m}^{-3}$ ).

| Date      | CO 3rd & Washington (ppm) | PM10 Freya & Ferry TEOM ( $\mu\text{g}/\text{m}^3$ ) | PM10 Freya & Ferry FRM ( $\mu\text{g}/\text{m}^3$ ) | PM2.5 Freya & Ferry TEOM ( $\mu\text{g}/\text{m}^3$ ) | PM2.5 Freya & Ferry FRM ( $\mu\text{g}/\text{m}^3$ ) | PM10 Monroe & College TEOM ( $\mu\text{g}/\text{m}^3$ ) | PM10 Monroe & College FRM ( $\mu\text{g}/\text{m}^3$ ) | PM2.5 Monroe & College TEOM ( $\mu\text{g}/\text{m}^3$ ) | PM2.5 Monroe & College FRM ( $\mu\text{g}/\text{m}^3$ ) | PM10 Turnbull Wildlife Refuge FRM ( $\mu\text{g}/\text{m}^3$ ) | PM2.5 Turnbull Wildlife Refuge ( $\mu\text{g}/\text{m}^3$ ) | PM10 Garland & Market ( $\mu\text{g}/\text{m}^3$ ) | PM10 Liberty Lake ( $\mu\text{g}/\text{m}^3$ ) | PM10-2.5 Liberty Lake ( $\mu\text{g}/\text{m}^3$ ) | PM2.5 Liberty Lake ( $\mu\text{g}/\text{m}^3$ ) | Ozone Greenbluff (ppm) | Ozone Cheney-Turnbull WR (ppm) |
|-----------|---------------------------|------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|----------------------------------------------------|-------------------------------------------------|------------------------|--------------------------------|
| 8/1/2007  | 1.3                       | 39                                                   |                                                     | 12                                                    |                                                      | 38                                                      |                                                        | 14                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 |                        | 0.055                          |
| 8/2/2007  | 1.6                       | 44                                                   |                                                     | 14                                                    | 11.8                                                 | 39                                                      |                                                        | 16                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 |                        | 0.056                          |
| 8/3/2007  | 1.4                       | 46                                                   |                                                     | 7.9                                                   |                                                      | 38                                                      |                                                        | 9.9                                                      |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 |                        | 0.05                           |
| 8/4/2007  | 1.2                       | 24                                                   | 21                                                  | 7.4                                                   | 5.2                                                  | 23                                                      | 22                                                     | 9.4                                                      | 5.5                                                     | 16                                                             | 5                                                           | 6                                                  | 21.4                                           | 15.7                                               | 5.7                                             | 0.048                  | 0.046                          |
| 8/5/2007  | 1.2                       | 20                                                   |                                                     | 7                                                     |                                                      | 20                                                      |                                                        | 8.5                                                      |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.053                  | 0.054                          |
| 8/6/2007  | 1.3                       | 32                                                   |                                                     | 9.4                                                   |                                                      | 27                                                      |                                                        | 9.4                                                      |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.053                  | 0.051                          |
| 8/7/2007  | 1.1                       | 45                                                   |                                                     | 8.9                                                   | 6.5                                                  | 40                                                      |                                                        | 11                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.042                  | 0.043                          |
| 8/8/2007  | 1.5                       | 27                                                   |                                                     | 6.1                                                   |                                                      | 23                                                      |                                                        | 9.8                                                      |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.038                  | 0.041                          |
| 8/9/2007  | 1.2                       | 24                                                   |                                                     | 6                                                     |                                                      | 20                                                      |                                                        | 9.2                                                      |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.051                  | 0.053                          |
| 8/10/2007 | 1.1                       | 36                                                   | 31                                                  | 7.9                                                   | 5.5                                                  | 31                                                      | 27                                                     | 9.8                                                      | 5.5                                                     | 20                                                             | 4                                                           | 28                                                 | 29.6                                           | 24.5                                               | 5.1                                             | 0.048                  | 0.046                          |
| 8/11/2007 | 1.3                       | 35                                                   |                                                     | 14                                                    |                                                      | 33                                                      |                                                        | 15                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.054                  | 0.054                          |
| 8/12/2007 | 1.4                       | 26                                                   |                                                     | 9                                                     |                                                      | 26                                                      |                                                        | 12                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.049                  | 0.051                          |
| 8/13/2007 | 1.2                       | 34                                                   |                                                     | 8.6                                                   | 7.4                                                  | 29                                                      |                                                        | 9.3                                                      |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.052                  | 0.052                          |
| 8/14/2007 | 1.4                       | 46                                                   |                                                     | 12                                                    |                                                      | 34                                                      |                                                        | 12                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.05                   | 0.055                          |
| 8/15/2007 | 1.3                       | 50                                                   |                                                     | 14                                                    |                                                      | 44                                                      |                                                        | 17                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.057                  |                                |
| 8/16/2007 | 1.5                       | 71                                                   | 61                                                  | 15                                                    | 14.3                                                 | 64                                                      | 58                                                     | 17                                                       | 12.6                                                    | 58                                                             | 10                                                          | 60                                                 | 40.6                                           | 18.5                                               | 22.1                                            | 0.064                  | 0.062                          |
| 8/17/2007 | 1.2                       | 32                                                   |                                                     | 11                                                    |                                                      | 31                                                      |                                                        | 15                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.055                  | 0.054                          |
| 8/18/2007 | 1.1                       | 30                                                   |                                                     | 11                                                    |                                                      | 28                                                      |                                                        | 17                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.045                  | 0.044                          |
| 8/19/2007 | 1.1                       |                                                      |                                                     |                                                       | 5.4                                                  | 16                                                      |                                                        | 11                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.038                  | 0.034                          |
| 8/20/2007 | 1.4                       |                                                      |                                                     |                                                       |                                                      | 6.2                                                     |                                                        | 8.2                                                      |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.026                  | 0.029                          |
| 8/21/2007 | 1.8                       | 11                                                   |                                                     | 5.7                                                   |                                                      | 7.7                                                     |                                                        | 11                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.036                  | 0.04                           |
| 8/22/2007 | 1.5                       | 20                                                   | 20                                                  | 7.3                                                   | 6.6                                                  | 14                                                      | 16                                                     | 11                                                       | 5.3                                                     | 9                                                              | 2                                                           | 17                                                 | 9.9                                            | 3.3                                                | 6.6                                             | 0.037                  | 0.043                          |
| 8/23/2007 | 1.3                       | 24                                                   |                                                     | 8                                                     |                                                      | 26                                                      |                                                        |                                                          |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.041                  | 0.046                          |
| 8/24/2007 | 1.4                       | 28                                                   |                                                     | 8.5                                                   |                                                      | 26                                                      |                                                        |                                                          |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.053                  | 0.054                          |
| 8/25/2007 | 1.3                       | 42                                                   |                                                     | 7                                                     | 5.7                                                  | 44                                                      |                                                        | 6.9                                                      |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.049                  | 0.051                          |
| 8/26/2007 | 0.6                       | 28                                                   |                                                     | 5.2                                                   |                                                      | 26                                                      |                                                        | 8                                                        |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.039                  | 0.041                          |
| 8/27/2007 | 1.2                       | 27                                                   |                                                     | 8.8                                                   |                                                      | 23                                                      |                                                        | 5.3                                                      |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.042                  | 0.041                          |
| 8/28/2007 | 1.2                       | 34                                                   | 33                                                  | 11                                                    | 9.4                                                  | 33                                                      | 32                                                     | 7.6                                                      | 8.0                                                     | 25                                                             | 6                                                           | 32                                                 | 18.5                                           | 12.0                                               | 6.6                                             | 0.048                  |                                |
| 8/29/2007 | 1.3                       | 33                                                   |                                                     | 10                                                    |                                                      | 41                                                      |                                                        | 11                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.05                   |                                |
| 8/30/2007 | 1.6                       | 42                                                   |                                                     | 11                                                    |                                                      | 42                                                      |                                                        | 11                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.056                  |                                |
| 8/31/2007 | 1.9                       | 52                                                   |                                                     | 11                                                    | 7.7                                                  | 45                                                      |                                                        | 11                                                       |                                                         |                                                                |                                                             |                                                    |                                                |                                                    |                                                 | 0.05                   |                                |