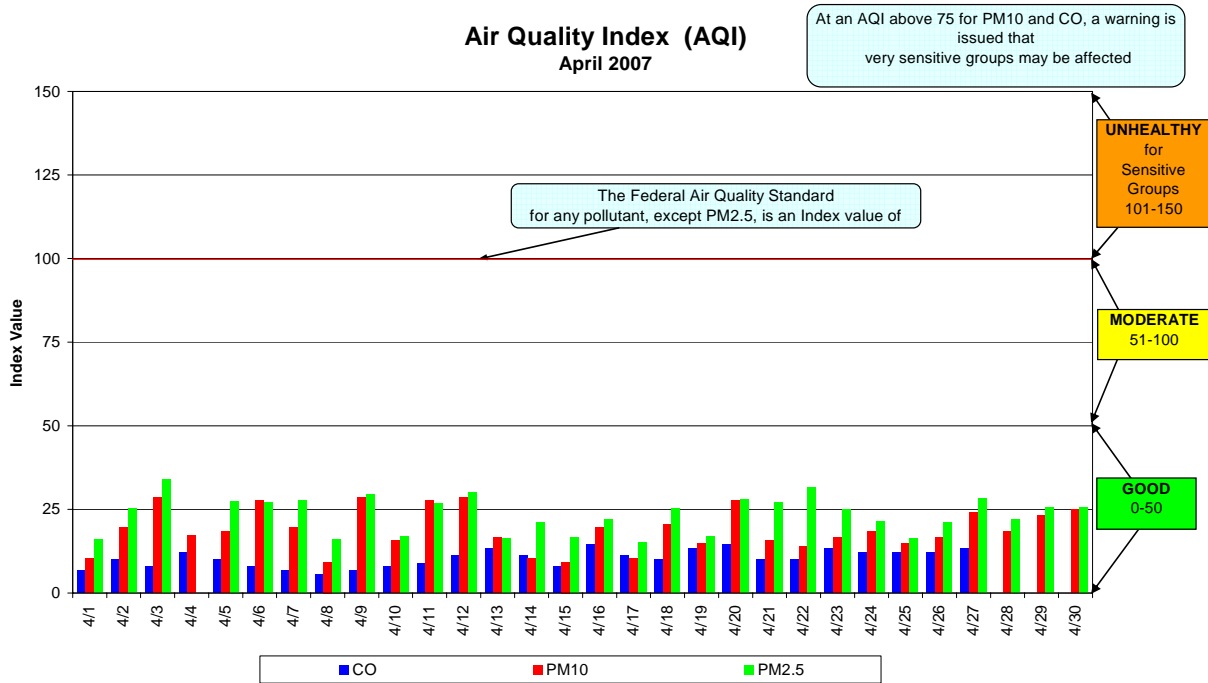


Air Quality Report April 2007

The chart below shows the daily maximum Air Quality Index (AQI) for April 2007. Carbon Monoxide (CO), particulate matter (PM₁₀ and PM_{2.5}), and ozone (O₃) 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 SCAPCA web page (http://www.scapca.org/air_quality.asp). There were no measured exceedances of federal air quality standards in April. Seasonal ozone monitoring began May 1 and will be included in the air quality report for May.



The following tables contain the maximum AQI values for each pollutant for April 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	14/1.3 ppm	3 rd & Washington	4/16 and 4/20/07
PM ₁₀	29/31 µg/m ³	Freya & Ferry	4/3, 4/9, and 4/12/07
PM _{2.5}	34/11 µg/m ³	Freya & Ferry	4/3/07

Maximum for the current year

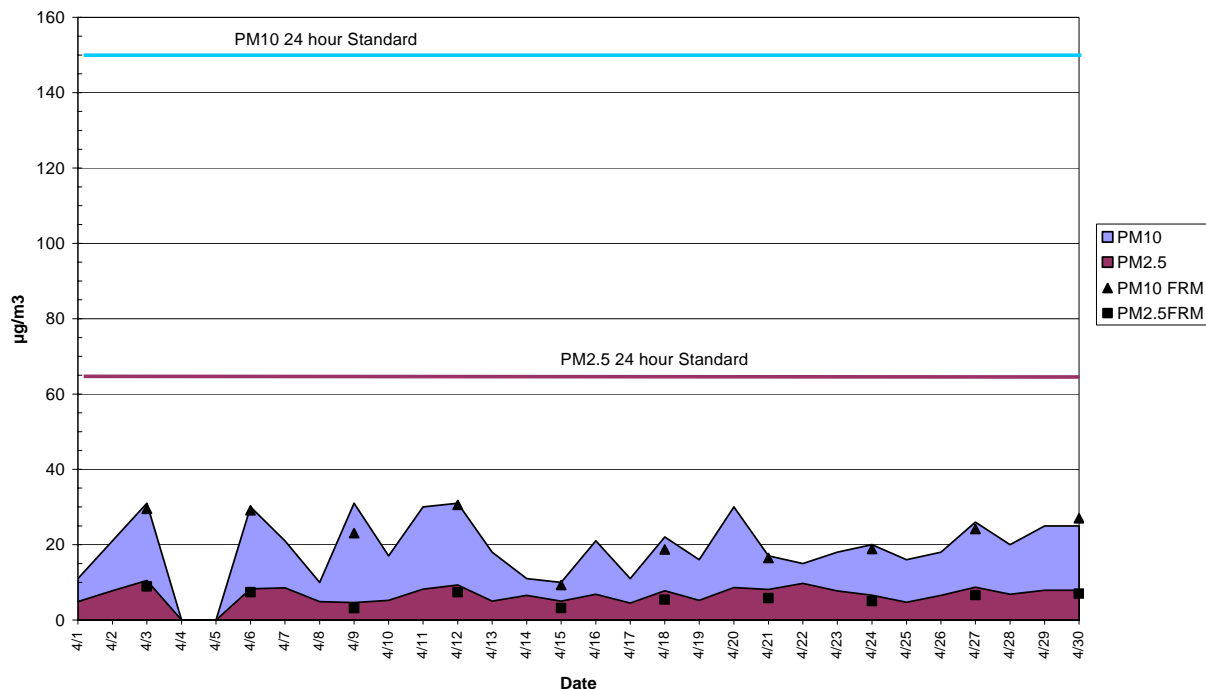
Pollutant	AQI/Concentration	Location	Date
CO	34/3.1 ppm	3 rd & Washington	1/19/07
PM ₁₀	45/48 µg/m ³	Freya & Ferry	3/15/07
PM _{2.5}	79/30 µg/m ³	Freya & Ferry	1/15/07
O ₃	No Data		

AQI Summary as of April 30, 2007

Category	Number of Days This Year	Last Year to Date
Good (0-50)	105	108
Moderate (51-100)	15	12
Unhealthy for Sensitive Groups (101-150)	0	0
Unhealthy (151-200)	0	0
Very Unhealthy (201-300)	0	0
Hazardous (>300)	0	0

The next chart compares the concentrations of PM₁₀ and PM_{2.5} measured at the Freya & Ferry monitoring site. The site is located in a commercial, light industrial area on the east edge of the City of Spokane. The data shown in solid colors were measured using Tapered Element Oscillating Microbalance (TEOM) continuous analyzers. The TEOM is an automated method and provides “real time” data, which SCAPCA uses in its day-to-day programs. The manually-operated Federal Reference Method (FRM) provides a more accurate measurement of the 24-hour average particulate matter concentration than the TEOM 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 is 0.93 for PM₁₀ and 0.96 for PM_{2.5} for April.

Freya & Ferry Particulate Matter Data
24hr Average Daily Maximum



April 2007 Air Quality Report

The table below summarizes the air quality data for April from all of the analyzers operated in Spokane County. The CO data are 8-hour maximums and the PM data are 24-hour averages.

Date	CO 3rd & Washington	PM ₁₀ Freya & Ferry TEOM	PM ₁₀ Freya & Ferry FRM	PM _{2.5} Freya & Ferry TEOM	PM _{2.5} Freya & Ferry FRM	PM ₁₀ Monroe & College TEOM	PM ₁₀ Monroe & College FRM	PM _{2.5} Monroe & College TEOM	PM _{2.5} Monroe & College FRM	PM ₁₀ Turnbull Wildlife Refuge FRM	PM _{2.5} Turnbull Wildlife Refuge	PM ₁₀ Garland & Market	PM ₁₀ Liberty Lake	PM _{10-2.5} Liberty Lake	PM _{2.5} Liberty Lake
4/1/2007	0.6	11		5		6		4							
4/2/2007	0.9	21		8		12		6							
4/3/2007	0.7	31	30	11	9	17									
4/4/2007	1.1					19									
4/5/2007	0.9					20		8							
4/6/2007	0.7	30	29	8	7	20	20	7	7	10	10	40	10	5	5
4/7/2007	0.6	21		9		19		8							
4/8/2007	0.5	10		5		10		5							
4/9/2007	0.6	31	23	5	3	23		9							
4/10/2007	0.7	17		5		10		4							
4/11/2007	0.8	30		8		20		6							
4/12/2007	1	31	31	9	7	21	18	7	5	7	7	23	14	10	4
4/13/2007	1.2	18		5		13		4							
4/14/2007	1	11		7		10		6							
4/15/2007	0.7	10	9	5	3	7		5							
4/16/2007	1.3	21		7		13		6							
4/17/2007	1	11		5		6		5							
4/18/2007	0.9	22	19	8	5	10	11	5	4	6	6	16	10	6	4
4/19/2007	1.2	16		5		9		5							
4/20/2007	1.3	30		9		21		6							
4/21/2007	0.9	17	16	8	6	17		8							
4/22/2007	0.9	15		10		10		9							
4/23/2007	1.2	18		8		9		6							
4/24/2007	1.1	20	19	7	5	12	12	5	4	8	8	15	14	10	4
4/25/2007	1.1	16		5		12		5							
4/26/2007	1.1	18		7		12		6							
4/27/2007	1.2	26	24	9	7	19		7							
4/28/2007		20		7		19		7							
4/29/2007		25		8		23		8							
4/30/2007		25	27	8	7	22	22	7	6	13	13	28	20	14	5

April 2007 Air Quality Report

The wind rose below summarizes hourly average wind speeds (mph) and directions (degrees) measured at the Freya and Ferry Site in April. The predominant wind direction for higher wind speeds was south to southwest. For lower wind speeds (< 4.1 mph) it was east.

