



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Enclosure 4

**The Commonwealth of Pennsylvania's Response to the
U.S. Environmental Protection Agency's Proposed Designations for
the 2012 Annual PM_{2.5} National Ambient Air Quality Standard**

**Request for Consideration of 2014 Design Values Prior to the
Effective Date of Final Designations**

**Bureau of Air Quality
Department of Environmental Protection**

[This page intentionally left blank.]

In its August 19, 2014, letter to Governor Corbett, EPA indicated plans to promulgate final annual PM_{2.5} designations in December 2014 for the 2012 annual PM_{2.5} NAAQS. EPA has indicated that the effective date of the final designations will likely be March 2015. Several areas in Pennsylvania that EPA proposed to designate as nonattainment areas may come into attainment of the NAAQS before March, based on the 2014 design value. Therefore, the PA Department of Environmental Protection (DEP) intends to complete early certification of the data for monitors within Pennsylvania. Once the 2014 data is received, DEP will submit a letter to EPA, prior to the effective date of the final designations, requesting withdrawal of any area showing attainment of the 2012 annual PM_{2.5} NAAQS. The DEP would also in that letter request that the designated nonattainment area(s) be reclassified as unclassifiable/attainment. Current air quality monitoring data for nonattaining monitors is provided below.

AIR QUALITY MONITORING DATA

The tables in this section include information for nonattaining monitors that are within EPA's intended nonattainment areas, including the Allegheny County Area, Johnstown area (Cambria County and partial Indiana County), Delaware County Area, Lebanon County Area and Allentown Area (Northampton and Lehigh Counties). The purposes of these tables is to show what the monitors in the nonattainment areas have been monitoring and to point out the potential for one or more of these areas to attain the 2012 annual PM_{2.5} NAAQS, based on data as early as the 2014 design value.

Table 1.1 includes annual mean data for the five monitors located in EPA's proposed nonattainment areas. In 2013, all of these monitoring locations recorded an annual mean lower than the 2012 annual PM_{2.5} NAAQS of 12.0 µg/m³.

Table 1.1. PM_{2.5} Nonattaining Monitors - Annual Mean (in µg/m³)

<u>County</u>	<u>Station</u>	<u>AQS Code</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
Allegheny	Liberty	42-003-0064	16.04	14.00	14.29	11.98
Cambria	Johnstown	42-021-0011	11.94	13.43	11.57	11.93
Delaware	Chester	42-045-0002	13.51	12.94	12.81	11.47
Lebanon	Lebanon	42-075-0100	N/A	11.43	14.25	11.22
Northampton	Freemansburg	42-095-0025	13.73	14.46	11.45	10.55

Table 1.2 includes annual design value data for the five monitors located in EPA's proposed nonattainment areas. The general trend for design values is downward across these monitors since 2010. The Chester, Freemansburg and Liberty monitors had a difference in design value from 2012 to 2013 of 0.7 µg/m³, 1.0 µg/m³ and 1.4 µg/m³, respectively.

Table 1.2. PM_{2.5} Nonattaining Monitors - Annual Design Value (in µg/m³)

<u>County</u>	<u>Station</u>	<u>AQS Code</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
Allegheny	Liberty	42-003-0064	16.0	15.0	14.8	13.4
Cambria	Johnstown	42-021-0011	12.6	12.4	12.3	12.3
Delaware	Chester	42-045-0002	13.3	12.9	13.1	12.4
Lebanon	Lebanon	42-075-0100	N/A	N/A	N/A	12.3
Northampton	Freemansburg	42-095-0025	12.6	13.4	13.2	12.2

Table 1.3 projects the annual mean necessary at the nonattaining monitors in the 2014 calendar year in order to meet or drop below the 2012 annual PM_{2.5} NAAQS of 12.0 µg/m³.

Table 1.3. PM_{2.5} Annual Mean Necessary in 2014 to Achieve Attainment (in µg/m³)

<u>County</u>	<u>Station</u>	<u>AQS Code</u>	<u>2014</u>
Allegheny	Liberty	42-003-0064	9.88
Cambria	Johnstown	42-021-0011	12.65
Delaware	Chester	42-045-0002	11.87
Lebanon	Lebanon	42-075-0100	10.68
Northampton	Freemansburg	42-095-0025	14.15

Table 1.4 provides the first and second quarter values for 2014 at each of the five nonattaining monitors that are within EPA's proposed nonattainment areas.

Table 1.4. PM_{2.5} Quarterly Values Through Second Quarter 2014 (in µg/m³)

<u>County</u>	<u>Station</u>	<u>AQS Code</u>	<u>1st Quarter Average</u>	<u>2nd Quarter Average</u>	<u>Average of 1st & 2nd Quarters</u>
Allegheny	Liberty	42-003-0064	14.73	12.50	13.61
Cambria	Johnstown	42-021-0011	16.07	10.35	13.21
Delaware	Chester	42-045-0002	15.07	10.95	13.01
Lebanon	Lebanon	42-075-0100	17.22	10.95	14.09
Northampton	Freemansburg	42-095-0025	13.76	7.98	10.87

CONCLUSION

Based on the information provided above, it appears probable that the Freemansburg monitor (for Northampton and Lehigh Counties) will be in attainment of the 2012 annual PM_{2.5} NAAQS after calculation of the 2014 design value. It is also possible that the Johnstown monitor and/or the Chester monitor (for Cambria and Indiana Counties and Delaware County, respectively) will achieve attainment of the standard, based on the 2014 design value. The Liberty and Lebanon monitors will likely take another year or two to come into attainment of the standard.

If any of these monitoring locations achieves a 2014 design value that is equal to or less than the 2012 annual PM_{2.5} NAAQS of 12.0 µg/m³, then prior to the effective date of EPA's final designations (effective date currently expected in March 2015), DEP will submit a letter to EPA requesting withdrawal of the appropriate nonattainment area and requesting that the designated nonattainment area(s) be reclassified as unclassifiable/attainment.