



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Michael R. Pence*  
Governor

*Thomas W. Easterly*  
Commissioner

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May 12, 2014

Ms. Susan Hedman  
Regional Administrator  
U.S. Environmental Protection Agency  
Region V  
77 West Jackson Boulevard  
Chicago, IL 60604-3950

Dear Ms. Hedman:

Re: Designations under the 2012 National  
Ambient Air Quality Standard for Particulate  
Matter (PM<sub>2.5</sub>)

The Indiana Department of Environmental Management (IDEM) has prepared this technical addendum to provide updated monitoring data to the United States Environmental Protection Agency (U.S. EPA) to supplement Indiana's designation recommendations for the 2012 annual PM<sub>2.5</sub> National Ambient Air Quality Standard (NAAQS) submitted on December 12, 2013. Initially, based on 2010-2012 monitoring data, IDEM proposed designations of attainment or unclassifiable for all counties within Indiana. Since that time, 2011-2013 monitoring data have become available that further supports IDEM's original recommendations.

As reflected in Enclosure 1, monitors located in Dubois, Lake, Marion, and Vanderburgh counties, which previously measured air quality above the standard, demonstrate attainment of the standard based on certified 2011-2013 monitoring data. Therefore, IDEM maintains its original recommendation of attainment for these counties.

Though one of the monitors located in Clark County (180190006—Jeffersonville Walnut St.) measured a 2011-2013 design value slightly above the annual standard, IDEM stands by its original recommendation of attainment. At the close of 2013, the Jeffersonville-Walnut St. monitor measured a 2011-2013 design value of 12.07 µg/m<sup>3</sup>, which is only 0.03 µg/m<sup>3</sup> above the standard due to rounding convention. However, the design value of the monitor has decreased by an average of 0.6 µg/m<sup>3</sup> per year over the last five years and it is anticipated that the monitor will attain the standard at the close of 2014, before designations are likely to become effective.

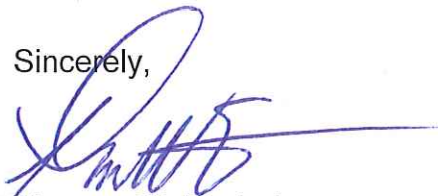
Ms. Hedman  
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Please note that the 2011-2013 design values for the Hammond-Purdue monitor in Lake County (180892004) and the Indianapolis-W. 18<sup>th</sup> St. monitor in Marion County (180970081) were incomplete in that the minimum data requirements were not met. Using data substitution methods recommended by U.S. EPA, IDEM completed an analysis regarding the missing data for these two monitors. The results of this analysis show that the design values for both monitors are well below the annual PM<sub>2.5</sub> standard.

Based on certified design values from 2011-2013 and a projection of Clark County's 2012-2014 design value, IDEM recommends that Allen, Clark, Delaware, Dubois, Elkhart, Floyd, Greene, Henry, LaPorte, Lake, Marion, Monroe, Porter, St. Joseph, Spencer, Tippecanoe, Vanderburgh, Vigo, and Whitley counties be designated as attainment, while all other counties within Indiana be designated as unclassifiable.

I would like to thank you for the opportunity to provide additional feedback to U.S. EPA regarding designation recommendations for the 2012 PM<sub>2.5</sub> NAAQS. We look forward to working with your staff as U.S. EPA moves forward with future designations. If you have any questions regarding IDEM's response, please feel free to contact me at (317) 232-8611 or Keith Baugues, Assistant Commissioner, Office of Air Quality, at (317) 232-8222.

Sincerely,



Thomas W. Easterly  
Commissioner

TE/kb  
Enclosures

- 1) 2010-2012 & 2011-2013 Monitoring Data for Indiana's Network
- 2) Map of Indiana 2011-2013 Annual PM<sub>2.5</sub> Design Values

cc: John Summerhays, U.S. EPA  
Doug Aburano, U.S. EPA  
Keith Baugues, IDEM

**Enclosure 1**  
**2010-2012 & 2011-2013 PM<sub>2.5</sub> Monitoring Data for Indiana's Network**

County	City	Site #	Site Name	2010-2012 Design Value ( $\mu\text{g}/\text{m}^3$ )	2011-2013 Design Value ( $\mu\text{g}/\text{m}^3$ )
Allen	Fort Wayne	180030004	Fort Wayne-Beacon St.	10.7	9.9
Clark	Jeffersonville	180190006	Jeffersonville-Walnut St.	<b>13.2</b>	<b>12.1**</b>
Clark	Charlestown	180190008	Charlestown State Park	11.0	10.0
Delaware	Muncie	180350006	Muncie-Central HS	11.3	10.2
Dubois	Jasper	180372001	Jasper-Post Office	<b>12.4</b>	11.4
Elkhart	Elkhart	180390008	Elkhart-Prairie St.	11.2	10.4
Floyd	New Albany	180431004	New Albany	11.8	10.7
Henry	Mechanicsburg	180650003	Mechanicsburg	10.5	9.7
Lake	East Chicago	180890006	East Chicago-Franklin Sch	11.5	10.8
Lake	Gary	180890031	Gary-Madison St.	<b>12.2</b>	11.6
Lake	Hammond	180892004	Hammond-Purdue	11.5	11.2
Lake	Hammond	180892010	Hammond-Clark HS*	11.0	
LaPorte	Michigan City	180910011	Michigan City-Marsh Elem.	10.1	9.6
Madison	Anderson	180950011	Anderson-Eastside Elem.	10.7	10.1
Marion	Indianapolis	180970084	School 21	<b>12.5</b>	11.6
Marion	Indianapolis	180970078	Washington Park	11.8	11.2
Marion	Indianapolis	180970081	W. 18 <sup>th</sup> St.	<b>12.8</b>	11.9
Marion	Indianapolis	180970083	E. Michigan St.	<b>12.6</b>	11.6
Monroe	Bloomington	181050003	Bloomington	10.4	9.9
Porter	Ogden Dunes	181270024	Ogden Dunes	10.7	10.4
St. Joseph	South Bend	181410015	South Bend-Shields Dr.	10.6	10.0
Spencer	Dale	181470009	Dale	12.0	11.1
Tippecanoe	Lafayette	181570008	Lafayette-Greenbush St.	10.7	9.9
Vanderburgh	Evansville	181630021	Evansville-Buena Vista	11.8	11.1
Vanderburgh	Evansville	181630016	Evansville-U of E	<b>12.2</b>	11.3
Vigo	Terre Haute	181670018	Terre Haute-Lafayette Ave.	11.9	11.1
Whitley	Larwill	181830003	Larwill		9.6

*Red represents monitors with a 2010-2012 or 2011-2013 design value above the annual standard of 12.0 $\mu\text{g}/\text{m}^3$ .*

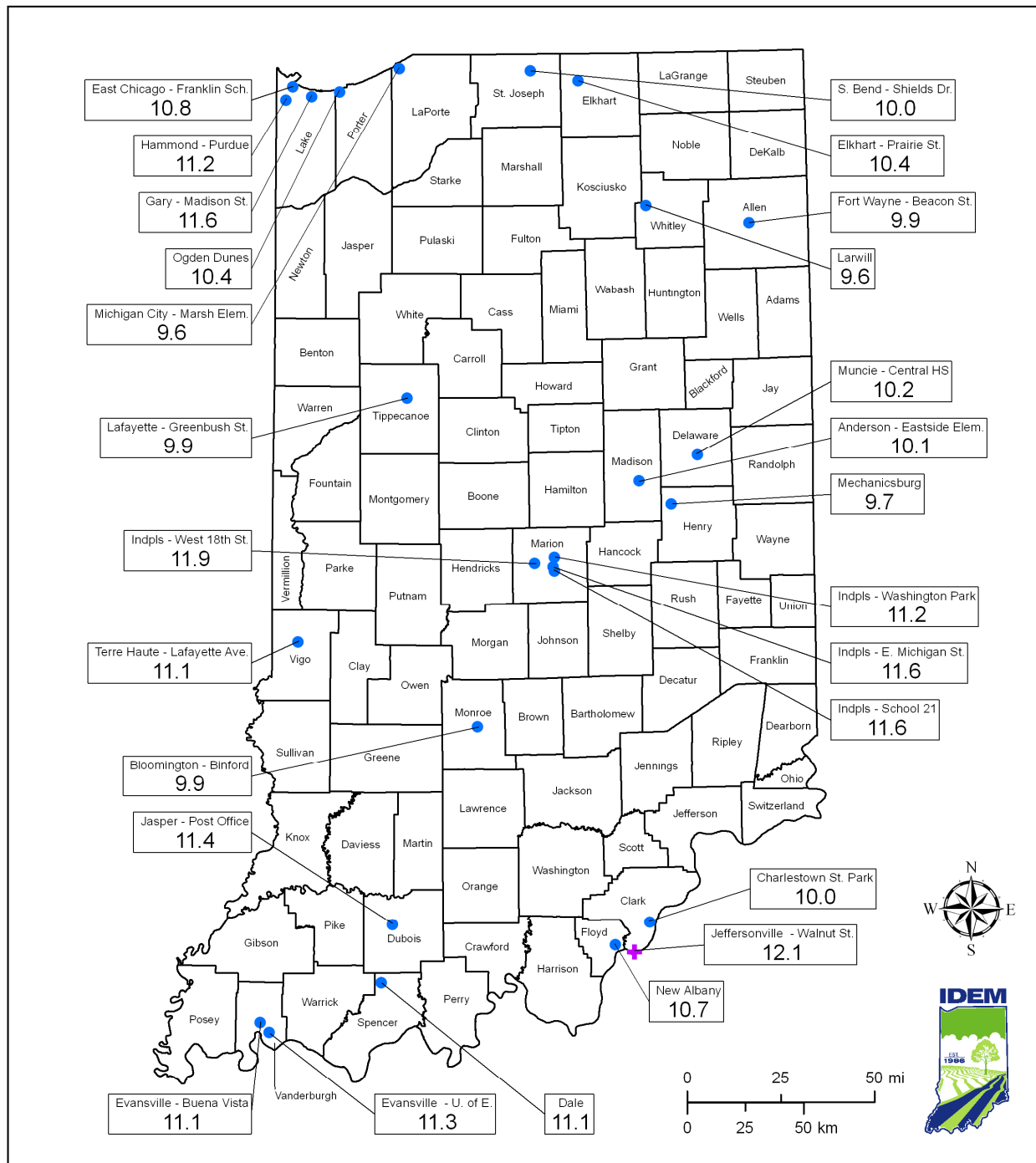
*\*The Hammond-Clark HS monitor was discontinued on December 29, 2012.*

*\*\*IDEM projects this value to be below the standard by close of 2014.*

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# Enclosure 2

## Map of Indiana 2011-2013 Annual PM<sub>2.5</sub> Design Values



### Notes:

- Posted Data Are in Units of Micrograms Per Cubic Meter ( $\mu\text{g}/\text{m}^3$ )
- Posted Data Represent PM<sub>2.5</sub> Annual Average Design Values, 2011 - 2013

Mapped By: C. Mitchell, OAQ

Date: 05/08/2014

Source: IDEM, Air Monitoring

Map Projection: UTM Zone 16 N

Map Datum: NAD83

### Legend

● PM<sub>2.5</sub> Design Value Less Than or Equal to 12.0  $\mu\text{g}/\text{m}^3$

✚ PM<sub>2.5</sub> Design Value Greater Than 12.0  $\mu\text{g}/\text{m}^3$

□ Indiana County Borders

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.