



**Andy Beshear**  
GOVERNOR

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

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**Rebecca Goodman**  
SECRETARY

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COMMISSIONER

June 1, 2023

Mr. Daniel Blackman  
Regional Administrator  
U.S. EPA, Region 4  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303

RE: Submittal of the proposed Kentucky State Implementation Plan revision, satisfying the second 10-year Limited Maintenance Plan of Bullitt, Jefferson, and Oldham Counties for the 1997 8-hour ozone National Ambient Air Quality Standards (NAAQS).

Dear Mr. Blackman:

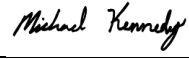
The Kentucky Energy and Environment Cabinet (Cabinet) submits this letter concurrent with a proposed revision to the Kentucky State Implementation Plan (SIP) for the second 10-year limited maintenance plan (LMP) of the Louisville, KY-IN 1997 8-hour ozone nonattainment area (hereinafter "the Area"). Specifically, the Cabinet has provided a submittal that contains a second maintenance plan for the Area demonstrating continued attainment for an additional ten years after the initial 10-year maintenance period as outlined in Clean Air Act (CAA) Section 175A(b).

On April 30, 2004, EPA designated the Kentucky counties of Bullitt, Jefferson, and Oldham, and the Indiana counties of Clark and Floyd as nonattainment for the 1997 8-hour ozone NAAQS. The draft SIP revision proposes that the Louisville, KY-IN 1997 8-hour ozone nonattainment area second LMP for the Kentucky portion of the Area be approved by EPA due to improved air quality and attainment and maintenance of the 1997 ozone NAAQS.

In accordance with 40 CFR 51.102, the proposed SIP revision will be available for public review and comment from June 1, 2023, until July 7, 2023. If you have any questions regarding this matter, please contact Ms. Cassandra Jobe, Environmental Control Manager, in the Program Planning and Administration Branch at (502) 782-6687, or [cassandra.jobe@ky.gov](mailto:cassandra.jobe@ky.gov).

Sincerely,

 Recoverable Signature

X 

Signed by: Michael Kennedy

Michael Kennedy, P.E.  
Director

# **1997 8-hour Ozone National Ambient Air Quality Standard, Second 10-Year Limited Maintenance Plan for Kentucky Portion of the Louisville KY-IN Maintenance Area**



**AIR POLLUTION  
CONTROL DISTRICT**



Prepared by:

Louisville Metro  
Air Pollution Control District

Kentucky Energy and Environment Cabinet  
Division for Air Quality

June 2023

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## **Appendices**

Appendix A – Monitoring Data

Appendix B – Public Notice and Statement of Consideration

## Checklist

### Administrative Materials<sup>1</sup>

- a) *Letter*<sup>2</sup> ☒
- b) *Adoption* ☐ (n/a)
- c) *Legal Authority* ☒ (see narrative)
- d) *Actual Regulation or document, including changes made* ☒
- e) *Commonwealth/Local procedural requirements - Appendix \*\** ☐
- f) *Copy of 30-day public notice – Appendix \*\** ☐
- g) *Signed Public Hearing Minutes – Appendix \*\** ☐
- h) *Comments & Responses – Appendix \*\** ☐

### Technical Support<sup>3</sup>

- a) *Pollutant Identification* ☒ (see narrative)
- b) *Area Identification* ☒ (see narrative)
- c) *Quantification of changes* ☒ (see narrative)
- d) *Anti-backsliding demonstration* ☒ (see narrative)
- e) *Modeling (if required)* ☐ (n/a)
- f) *Evidence limitations are based on continuous emission reduction technology (if necessary)* ☐  
(n/a)
- g) *Evidence plan contains emission limitations, work practice standards and recordkeeping/reporting requirements (if necessary)* ☐ (n/a)
- h) *Compliance/enforcement strategies* ☒ (see narrative)
- i) *Special economic and technological justifications (if required)* ☐ (n/a)

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<sup>1</sup> 40 CFR Part 51, Appendix V, 2.1

<sup>2</sup> Letter from Commonwealth is technically required. Letter to the Division may be used to fulfill some administrative requirements.

<sup>3</sup> 40 CFR Part 51, Appendix V, 2.2

## **I. Background & Introduction**

### *a. History*

On July 18, 1997, the U.S. Environmental Protection Agency (EPA) promulgated a revision to the National Ambient Air Quality Standard (NAAQS) for ozone, setting an 8-hour standard of 0.080 parts per million (ppm), based on the 3–year average of the annual fourth-highest daily maximum 8–hour average ozone concentrations measured at each monitor within an area.<sup>4</sup>

On April 30, 2004, EPA designated the Louisville KY-IN area (hereinafter “the Area”) as nonattainment for the 1997 standard, which included Jefferson, Bullitt, and Oldham counties in Kentucky, as well as Clark and Floyd counties in Indiana.<sup>5</sup> Subsequently, on July 5, 2007, at the request of the Kentucky Division for Air Quality (Division), a redesignation request and maintenance plan for the Kentucky portion of the Area was approved, redesignating it to attainment.<sup>6</sup> On March 27, 2008, EPA promulgated a revised NAAQS for the 8-hour ozone standard, lowering the previous standard of 0.080 to 0.075 ppm, which went into effect May 27, 2008.<sup>7</sup> Final area designations for the 2008 standard were published on May 21, 2012 and became effective July 20, 2012.<sup>8</sup> The Area was designated as attainment for the 2008 8-hour ozone NAAQS.

In 2015, EPA updated the 8-hour ozone standard to a level of 0.070 ppm,<sup>9</sup> and designated the Area marginal nonattainment for that standard.<sup>10</sup> Although the Area failed to attain the 2015 standard by the deadline of August 3, 2020 and was reclassified to moderate nonattainment, the Area did attain the 2015 standard in the year 2021.<sup>11</sup> The Indiana portion of the Area was redesignated to attainment on July 5, 2022.<sup>12</sup> The Division submitted a redesignation request and maintenance plan for the Kentucky portion of the Area on behalf of itself and the Louisville Metro Air Pollution Control District (District) on September 6, 2022.

### *b. Requirements*

Maintenance Plan Requirements contained in CAA Section 175A include:

- (a) Plan revision
- (b) Subsequent plan revisions
- (c) Nonattainment requirements applicable pending plan approval
- (d) Contingency provisions

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<sup>4</sup> 62 FR 38856

<sup>5</sup> 69 FR 23858

<sup>6</sup> 72 FR 36601

<sup>7</sup> 73 FR 16436

<sup>8</sup> 77 FR 30087

<sup>9</sup> 80 FR 65291

<sup>10</sup> 83 FR 25776

<sup>11</sup> 87 FR 60897

<sup>12</sup> 87 FR 39750

Pursuant to Section 175A(b) of the CAA, eight years after an area is redesignated to attainment, the state must submit a second maintenance plan demonstrating continued attainment for an additional ten years after the initial 10-year maintenance period covered by an initial maintenance plan. When EPA set implementation requirements for the 2008 ozone NAAQS on April 5, 2015, it also revoked the 1997 ozone NAAQS, including requirements for subsequent maintenance plans. However, the D.C. Circuit Court issued a decision in *South Coast Air Quality Management District v. EPA (South Coast II)* that struck down EPA's revocation of the standard in certain regards, and included reinstating the requirement for subsequent maintenance plans for the 1997 ozone NAAQS.<sup>13</sup>

On September 4, 1992, a memo from the Director of EPA's Air Quality Management Division, John Calcagni,<sup>14</sup> further elaborated on the requirements of CAA Section 175A, specifying five requirements:

- a. Attainment Inventory
- b. Maintenance Demonstration
- c. Monitoring Network
- d. Verification of Continued Attainment
- e. Contingency Plan<sup>15</sup>

Several subsequent guidance documents from EPA have provided an option termed "Limited Maintenance Plans" (LMPs) for areas where, within certain limited circumstances, a more streamlined maintenance plan may be allowed.<sup>16</sup> Past criteria supporting LMPs include: (a) Current air quality levels significantly below the level of the standard, and (b) Stable or improving air quality trend.<sup>17</sup>

The initial maintenance period for the Area ended ten years after approval of the initial maintenance plan – i.e., in 2017. This second maintenance plan therefore demonstrates continued maintenance of the 1997 ozone NAAQS through 2027, following guidance for LMPs. The Area continues to attain the 1997 ozone standard, with a design value of 0.069 ppm for 2019 through 2021, and will continue to attain the standard through at least 2027. The Division and the District

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<sup>13</sup> 882 F.3d 1138 (2018).

<sup>14</sup> John Calcagni, Director, Air Quality Management Division, "[\*Procedures for Processing Requests to Redesignate Areas to Attainment\*](#)," (Sep. 4, 1992), (hereinafter "Calcagni Memo").

<sup>15</sup> *Id.* at 7-13.

<sup>16</sup> These documents include:

- A. "[\*Limited Maintenance Plan Option for Nonclassifiable Ozone Nonattainment Areas\*](#)," November 16, 1994. This document addressed the LMP option available for the 1979 1-hour ozone NAAQS.
- B. "[\*Limited Maintenance Plan Option for Nonclassifiable Carbon Monoxide Nonattainment Areas\*](#)," October 6, 1995. This document addressed the LMP option available for the 1971 carbon monoxide NAAQS.
- C. "[\*Limited Maintenance Plan Option for Moderate PM10 Nonattainment Areas\*](#)," August 9, 2001. This document addressed the LMP option for the 1987 PM10 NAAQS.
- D. "[\*Resource Document for 1997 Ozone NAAQS Areas: Supporting Information for States Developing Maintenance Plans\*](#)," November 20, 2018. This document addressed maintenance requirements for the 1997 8-hour ozone NAAQS.

<sup>17</sup> *Id.*

therefore request that this subsequent maintenance plan for the Kentucky portion of the Area be approved by EPA.

## **II. Requirements**

Each requirement of a maintenance plan is addressed in the order laid out in the *Calcagni Memo* below.

### *a. Attainment Inventory*

The initial redesignation request and maintenance plan for the 1997 ozone NAAQS used an attainment year of 2003, based on monitoring data for 2003-2005, which showed the Area attaining the standard. According to the initial redesignation request and maintenance plan, Kentucky used actual 2003 emissions for point sources. The inventory projected both the area source emissions and the locomotive portion of non-highway emissions from the 2002 base year inventory to the 2003 attainment year. Emissions for highway mobile sources were developed using EPA's MOBILE6.2 mobile emissions model. Nonroad emissions were modeled using EPA's Nonroad Emissions Model for 2003.

As a part of its request to redesignate the Kentucky portion of the Area to attainment for the 2015 ozone standard, the Division and District submitted an attainment inventory for 2019. The 2019 attainment year inventory was developed using a combination of sources: (1) Data from the 2017 NEI; (2) Data required to be submitted by sources to the District<sup>18</sup> and the Division,<sup>19</sup> (3) Mobile source modeling, using the Kentuckiana Regional Planning and Development Agency's (KIPDA's) most recent travel demand model (TDM) along with EPA's Motor Vehicle Emission Simulator (MOVES) version 3.0.3, was conducted by KIPDA and the District for the Area; and (4) EPA's 2016v2 modeling platform.<sup>20</sup>

In Table 1, the 2019 inventory for the three Kentucky counties within the Area is compared to the 2003 attainment inventory. This comparison demonstrates the Area is not only significantly below the 2003 attainment inventory, but also continuing a downward trend in emissions. For more information on the development of these inventories, please see the original submissions.<sup>21</sup>

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<sup>18</sup> District Regulation 1.06, available at <https://louisvilleky.gov/air-pollution-control-district/document/regulation-106-version-11>.

<sup>19</sup> 401 KAR 52:020, available at <https://apps.legislature.ky.gov/law/kar/401/052/020.pdf> and 401 KAR 52:030, available at <https://apps.legislature.ky.gov/law/kar/401/052/030.pdf>.

<sup>20</sup> See EPA, 2016v2 Platform.

<sup>21</sup> Available at <https://www.regulations.gov/docket/EPA-R04-OAR-2006-0584/document> and <https://louisvilleky.gov/government/air-pollution-control-district/recent-actions> for the 1997 and 2015 ozone NAAQS redesignations requests and maintenance plans, respectively.



**Table 1 – 2003 Attainment Inventory v. Most Recent Complete Inventory (2019) in tons per summer day (tpsd) for the Kentucky portion of the Area**

	NO <sub>x</sub>		VOCs	
	2003	2019	2003	2019
<b>Bullitt Total</b>	<b>10.04</b>	<b>5.77</b>	<b>16.95</b>	<b>19.74</b>
Nonpoint	0.11	0.33	3.34	5.03
Nonroad	1.81	0.26	1.77	0.55
Onroad	7.52	3.67	3.74	1.26
Point	0.60	1.51	8.10	12.90
<b>Jefferson Total</b>	<b>170.76</b>	<b>62.59</b>	<b>80.61</b>	<b>63.05</b>
Nonpoint	0.75	6.88	17.33	30.53
Nonroad	31.94	3.39	14.31	3.66
Onroad	63.29	19.97	25.34	8.41
Point	74.78	32.35	23.63	20.45
<b>Oldham Total</b>	<b>6.22</b>	<b>2.61</b>	<b>7.01</b>	<b>2.80</b>
Nonpoint	0.07	0.41	2.46	1.56
Nonroad	1.63	0.35	1.54	0.51
Onroad	4.43	1.67	2.29	0.61
Point	0.09	0.18	0.72	0.12
<b>Kentucky Total</b>	<b>187.02</b>	<b>70.97</b>	<b>104.57</b>	<b>85.59</b>

*b. Maintenance Demonstration*

According to the *Calcagni Memo*, “[a] A State may generally demonstrate maintenance of the NAAQS by either showing that future emissions of a pollutant or its precursors will not exceed the level of the attainment inventory, or by modeling to show that the future mix of sources and emission rates will not cause a violation of the NAAQS.”<sup>22</sup> Subsequent guidance from EPA regarding the option of a LMP has stated that “[a] LMP submission may primarily rely on air quality data to demonstrate that the area is not expected to experience a future NAAQS violation, and it does not need to include projected future year emissions inventories or air quality modeling to make that demonstration, though including such information could further support the maintenance demonstration.”<sup>23</sup> According to EPA guidance, an area is only eligible for the LMP option if it is below 85% of the level of the standard.<sup>24</sup>

<sup>22</sup> *Calcagni memo*, *supra* note \*\* at 9.

<sup>23</sup> “Resource Document for 1997 Ozone NAAQS Areas: Supporting Information for States Developing Maintenance Plans,” *supra* note \*\* at 3.

<sup>24</sup> *Id.*, *supra* note \*\* at 2.

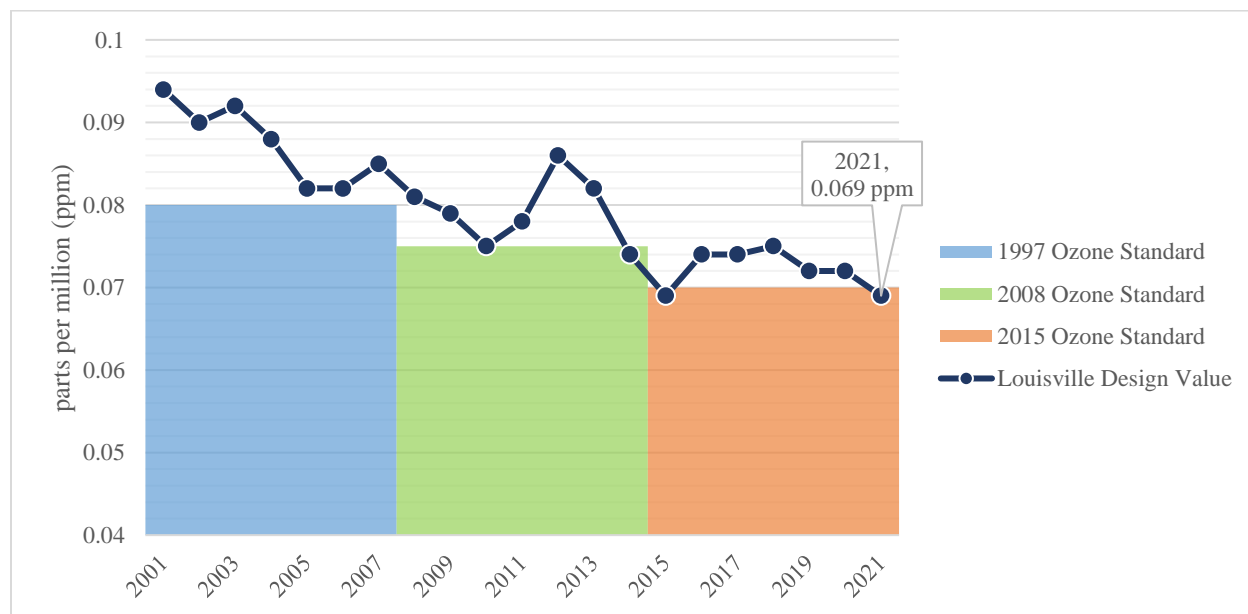
Since an area is considered to be meeting the 1997 ozone NAAQS when monitored ozone levels are below 0.085 ppm,<sup>25</sup> an area is eligible to submit a LMP if its current design value is at or below 0.071 ppm. With a current design value of 0.069 ppm, the Area is eligible to submit this LMP. Table 2 shows design values for the Area and for each individual monitor in the Area.

**Table 2 - Annual 4th Maximum 8-hour Monitored Ozone and Design Values for the Louisville, KY-IN Ozone Nonattainment Area, 2019-2021 (ppm)**

Site ID	County	Annual 4 <sup>th</sup> Maximum			Design Value
		2019	2020	2021	2019-2021
21-029-0006	Bullitt, KY	0.063	0.065	0.065	0.064
21-185-0004	Oldham, KY	0.065	0.061	0.065	0.063
21-111-0067	Jefferson, KY	0.068	0.071	0.069	0.069
21-111-0051	Jefferson, KY	0.065	0.063	0.067	0.065
21-111-0080	Jefferson, KY	0.064	0.068	0.073	0.068
18-019-0008	Clark, IN	0.064	0.062	0.063	0.063
18-043-1004	Floyd, IN	0.063	0.066	0.064	0.064

This demonstrates that current air quality levels are significantly below the level of the standard. Furthermore, the Area has a stable or improving air quality trend. This is evident from the decreasing trend in Figure 1 and Table 3, which display the design values for the Area over time. It should be noted that the values listed in Table 3 are the maximum design values for the Area, i.e., the highest monitored value in the Area for each year.

**Figure 1 - Louisville KY-IN 8-hour Ozone Design Values**



<sup>25</sup> [Appendix I to 40 CFR Part 50](#) at §2.3(a).

**Table 3 - Louisville KY-IN 8-hour Ozone Design Values (ppm)**

Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Design Value	0.078	0.086	0.082	0.074	0.069	0.074	0.074	0.075	0.072	0.072	0.069

*c. Monitoring Network*

According to the *Calcagni Memo*, areas should continue to operate an air quality monitoring network, in accordance with 40 CFR Part 58, to verify continued attainment once redesignated, and the “maintenance plan should contain provisions for continued operation of air quality monitors that will provide such verification.”<sup>26</sup>

The Division and the District will continue to operate an ambient air quality monitoring network consistent with the network plan and assessments required by 40 CFR 58.10 and 40 CFR Part 58, Appendix D. Any modification to the network will be conducted in accordance with 40 CFR 58.14. As required by 40 CFR 58.16, all data collected will be recorded in the Air Quality System (AQS) database and will be available to the public.

*d. Verification of Continued Attainment*

The Kentucky portion of the Area currently has five monitors measuring ozone. In accordance with 40 CFR Part 58, the Division and the District commit to the continued operation of an EPA-approved ambient air quality monitoring network. The ozone-monitoring season for the Area runs from March 1 through October 31. Since there will be no cap on emissions for areas using the LMP, continued operation is crucial in verifying attainment. Kentucky’s Annual Monitoring Network Plan provides the framework for its air quality surveillance. The monitoring network plan undergoes an annual review process to ensure consistency with the regulation.<sup>27</sup>

The Division and the District have the legal authority to implement and enforce the maintenance plan requirements for Jefferson, Oldham, and Bullitt counties.<sup>28</sup> This includes the right to enforce emission control measures that may be necessary to address future ozone attainment issues. Verification of continued attainment is achieved through operating an ambient ozone monitoring network of which the Division and the District operate and manage.

*e. Contingency Plan*

Section 175A(d) of the CAA requires maintenance plans to include provisions for the prompt correction of any violation of the NAAQS.<sup>29</sup> At a minimum, such contingency measures must include all measures contained in the SIP for the Area prior to redesignation. In addition to measures to be adopted to correct any violation, the plan should also contain “a schedule and

<sup>26</sup> *Calcagni Memo*, *supra* note 9, at 11.

<sup>27</sup> <https://eec.ky.gov/Environmental-Protection/Air/Division%20Reports/2021%20Kentucky%20Annual%20Ambient%20Air%20Monitoring%20Network%20Plan.pdf>.

<sup>28</sup> 40 C.F.R. Part 52 Subpart S – Kentucky.

<sup>29</sup> 42 U.S.C. §7505a.(d).

procedure for adoption and implementation, and a specific time limit for action” as well as “specific indicators, or triggers” for action.<sup>30</sup>

Future reviews of actual emissions for this redesignated Area will be performed using the latest emission factors, models, and methodologies. For these periodic inventories, the Division and the District will review the assumptions made for the purpose of the maintenance demonstration concerning projected growth of activity levels. If any of these assumptions appear to have changed substantially, the Division and the District will re-project emissions. If an annual fourth-high monitored value of 0.085 ppm or greater occurs in a single ozone season, or if periodic emission inventory updates reveal excessive or unanticipated growth greater than 10% in ozone precursor emissions within the Area, the Division and the District will evaluate existing control measures to see if any further emission reduction measures should be implemented at that time. Implementation of necessary controls in response to an initial "indicator" response will take place as expeditiously as possible, but in no event later than twelve months from a monitored value of 0.085 ppm or greater at the conclusion of the most recent ozone season (October 31).

If a three-year average fourth-high monitored value of 0.085 ppm or greater (i.e., a violation of the standard) occurs within the Area, an action level response will take effect. The Division and the District, in conjunction with the metropolitan planning organization or regional council of governments, will determine additional control measures needed to assure future attainment of the NAAQS for ozone. Contingency measures taken within 24 months of a triggered violation will be the appropriate controls which the Division and the District have determined will bring the area back into attainment.

Potential contingency measures may be chosen from the following list; however, the Division and the District also reserve the right to implement other contingency measures if they are deemed more advantageous for the Area’s air quality and for bringing it back into attainment.

- Implementation of a program to require additional emission reductions on stationary sources, including Reasonably Available Control Technology (RACT) for point sources of VOC and NO<sub>x</sub>, and, specifically, the adoption of new and revised RACT rules based on Groups II, III, and IV CTGs;
- Implementation of a program to enhance inspection of stationary sources;
- Implementation of fuel programs, including incentives for alternative fuels;
- Restriction of certain roads or lanes to, or construction of such roads or lanes for use by, passenger buses or high-occupancy vehicles;
- Trip-reduction ordinances;
- Employer-based transportation management plans, including incentives;
- Programs for new construction and major reconstructions of paths or tracks for use by pedestrians or by non-motorized vehicles when economically feasible and in the public interest;

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<sup>30</sup> *Calcagni Memo*, *supra* note 9, at 12-13.

- Implementation of a modern vehicle inspection/maintenance program;
- Implementation of diesel retrofit programs, including incentives for performing retrofits for fleet vehicle operations;
- Additional engine idling reduction programs.

### **III. Transportation Conformity**

In accordance with CAA Section 176(c), transportation conformity is required in order to ensure that transportation plans, transportation improvement programs, and federally supported highway transit project activities conform to the purpose of the SIP. This means that transportation activities will not cause new air quality violations, worsen existing violations, or delay timely attainment of the NAAQS. Maintenance areas following maintenance plans must demonstrate conformity by remaining below emissions budgets for the area. As stated in the LMP Guidance, limited maintenance plan areas are considered non-constraining during the initial maintenance period since it is unlikely that the area would experience enough growth within that time to result in an ozone NAAQS violation. For this reason, it is unnecessary to cap emissions during the maintenance period.

Upon EPA's approval of this LMP, the budget test requirements of the conformity rule in 40 CFR sections 93.118, 93.119, and 93.120 are considered satisfied. Pursuant to 40 CFR 93.108, in order for transportation plans, transportation improvement programs, and regionally significant projects to proceed, they still require conformity determinations. However, in accordance with 40 CFR 93.109(e), a regional emissions analysis is not a requirement in doing a conformity determination for areas with LMPs.

On November 24, 1993, EPA promulgated the Transportation Conformity regulations to implement Section 176(c) of the CAA, which apply to highways and mass transit.<sup>31</sup> These regulations form the procedures and criteria for deciding whether programs, transportation plans, and projects funded under title 23 U.S.C. or the Federal Transit Act conform with the SIP.

On March 6, 2015, EPA published a final rule revoking the 1997 ozone NAAQS which allowed the Louisville KY-IN Metropolitan Planning Organization (MPO) to discontinue the transportation conformity demonstration requirements. However, the *South Coast II* Decision remanded EPA's revocation of the 1997 ozone standard on February 16, 2018, via the United States Court of Appeals (USCA) Case No. 15-1123.<sup>32</sup> Therefore, the Louisville KY-IN MPO is once again required to demonstrate conformity for the Area.

The Kentuckiana Regional Planning and Development Agency (KIPDA) Transportation Policy Committee, which represents Kentucky and Indiana under state and Federal laws as the MPO for

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<sup>31</sup> U.S. EPA, *Criteria and Procedures for Determining Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Funded or Approved Under Title 23 U.S.C. or the Federal Transit Act*, 58 FR 62188, (Nov. 24, 1993).

<sup>32</sup> *Supra*, note 13.

the Louisville KY-IN area, adopted the 2040 Metropolitan Transportation Plan (MTP), the most current MTP for the Area, on February 27, 2020.<sup>33</sup> The 2040 MTP meets the requirements of conformity under the 2015 eight-hour ozone standard.

#### **IV. Conclusion**

The most recent three years of ozone monitoring data (2019-2021) for the Area demonstrate continued compliance with the 1997 8-hour ozone NAAQS, with current air quality levels significantly below the level of the standard. Furthermore, the Area has a stable or improving air quality trend. Additionally, the LMP shows emissions continue to remain below the level of the attainment inventory, that the Division and the District will continue to operate the monitoring network and verify continued attainment, and that there is a contingency plan in place in the event of a violation of the standard.

The Division and the District therefore request that the second 10-year LMP for Jefferson, Oldham and Bullitt counties within the Louisville KY-IN 1997 8-hour ozone nonattainment area be approved by EPA.

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<sup>33</sup> Connecting Kentuckiana 2040 Metropolitan Transportation Plan, [https://www.kipda.org/wp-content/uploads/2021/02/ConnectingKentuckiana\\_final\\_smallpdf.pdf](https://www.kipda.org/wp-content/uploads/2021/02/ConnectingKentuckiana_final_smallpdf.pdf).

# **APPENDIX A**

## **Monitoring Data**

User ID: JNALL

## DESIGN VALUE REPORT

Report Request ID: 2091156

Report Code: AMP480

Mar. 30, 2023

## GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
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21	029	0006									
21	185	0004									
21	111	0067									
21	111	0051									
21	111	0080									
18	019	0008									
18	043	1004									

## PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
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DESIGN VALUE	44201		
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## SELECTED OPTIONS

Option Type	Option Value
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SINGLE EVENT PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
MERGE PDF FILES	YES
AGENCY ROLE	PQAO
USER SITE METADATA	STREET ADDRESS
QUARTERLY DATA IN WORKFILE	NO
WORKFILE DELIMITER	,
USE LINKED SITES	YES

## DATE CRITERIA

Start Date	End Date
2011	2021

## APPLICABLE STANDARDS

Standard Description
Ozone 8-hour 2015



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2011  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

Statistic: Annual 4th Maximum			Level: .07				State: Indiana										
Site ID	Poc	STREET ADDRESS	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	3 - Year	Design	D. V.
			Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Percent Complete	Value	Validity
18-019-0008		12500 St. Rd. 62-Charlestown State Park/Indiana Armory	172	94	.082	Y	183	100	.077	U	176	96	.067	U	97	.075	Y
18-043-1004		2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL	183	100	.080	Y	183	100	.072	U	182	99	.063	U	100	.071	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.  
3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2012  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

Statistic: Annual 4th Maximum			Level: .07				State: Indiana										
Site ID	Poc	STREET ADDRESS	2012		4th	Cert&	2011		4th	Cert&	2010		Cert&	3 - Year		D. V.	
			Valid	Percent			Valid	Percent			Valid	Percent		Percent	Design		
			Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
18-019-0008		12500 St. Rd. 62- Charlestown State Park/ Indiana Armory	174	95	.085	Y	172	94	.082	Y	183	100	.077	U	96	.081	Y
18-043-1004		2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL	183	100	.087	Y	183	100	.080	Y	183	100	.072	U	100	.079	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.  
3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2013  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

			Level: .07				State: Indiana										
Site ID	Poc	STREET ADDRESS	2013				2012				2011				3 - Year		
			Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Percent	Design	D. V.
			Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
18-019-0008		12500 St. Rd. 62- Charlestown State Park/ Indiana Armory	181	99	.067	Y	174	95	.085	Y	172	94	.082	Y	96	.078	Y
18-043-1004		2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL	183	100	.068	Y	183	100	.087	Y	183	100	.080	Y	100	.078	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2014  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

			Level: .07				State: Indiana										
Site ID	Poc	STREET ADDRESS	2014				2013				2012				3 - Year		
			Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Percent	Design	D. V.
			Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
18-019-0008		12500 St. Rd. 62- Charlestown State Park/ Indiana Armory	170	93	.066	Y	181	99	.067	Y	174	95	.085	Y	96	.072	Y
18-043-1004		2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL	180	98	.068	Y	183	100	.068	Y	183	100	.087	Y	99	.074	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2015  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

			Level: .07				State: Indiana										
Site ID	Poc	STREET ADDRESS	2015				2014				2013				3 - Year		
			Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Percent	Design	D. V.
			Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
18-019-0008		12500 St. Rd. 62- Charlestown State Park/ Indiana Armory	175	96	.074	Y	170	93	.066	Y	181	99	.067	Y	96	.069	Y
18-043-1004		2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL	153	84	.067	Y	180	98	.068	Y	183	100	.068	Y	94	.067	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2016  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

			Level: .07				State: Indiana										
Site ID	Poc	STREET ADDRESS	2016				2015				2014				3 - Year		
			Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Percent	Design	D. V.
			Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
18-019-0008		12500 St. Rd. 62- Charlestown State Park/ Indiana Armory	179	98	.072	Y	175	96	.074	Y	170	93	.066	Y	96	.070	Y
18-043-1004		2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL	176	96	.073	Y	153	84	.067	Y	180	98	.068	Y	93	.069	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2017  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

			Level: .07				State: Indiana										
Site ID	Poc	STREET ADDRESS	2017				2016				2015				3 - Year		
			Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Percent	Design	D. V.
			Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
18-019-0008		12500 St. Rd. 62- Charlestown State Park/ Indiana Armory	242	99	.068	Y	179	98	.072	Y	175	96	.074	Y	98	.071	Y
18-043-1004		2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL	244	100	.074	Y	176	96	.073	Y	153	84	.067	Y	93	.071	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2018  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

			Level: .07				State: Indiana										
Site ID	Poc	STREET ADDRESS	2018				2017				2016				3 - Year		
			Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Percent	Design	D. V.
			Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
18-019-0008		12500 St. Rd. 62- Charlestown State Park/ Indiana Armory	239	98	.071	Y	242	99	.068	Y	179	98	.072	Y	98	.070	Y
18-043-1004		2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL	235	96	.073	Y	244	100	.074	Y	176	96	.073	Y	97	.073	Y

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AIR QUALITY SYSTEM  
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Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2019  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

			Level: .07				State: Indiana										
Site ID	Poc	STREET ADDRESS	2019				2018				2017				3 - Year		
			Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Percent	Design	D. V.
			Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
18-019-0008		12500 St. Rd. 62- Charlestown State Park/ Indiana Armory	244	100	.064	Y	239	98	.071	Y	242	99	.068	Y	99	.067	Y
18-043-1004		2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL	240	98	.063	Y	235	96	.073	Y	244	100	.074	Y	98	.070	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2020  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

			Level: .07				State: Indiana										
Site ID	Poc	STREET ADDRESS	2020				2019				2018				3 - Year		
			Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Percent	Design	D. V.
			Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
18-019-0008		12500 St. Rd. 62- Charlestown State Park/ Indiana Armory	240	98	.062	Y	244	100	.064	Y	239	98	.071	Y	99	.065	Y
18-043-1004		2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL	244	100	.066	Y	240	98	.063	Y	235	96	.073	Y	98	.067	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2021  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		Level: .07				State: Indiana										
Site ID	Poc STREET ADDRESS	2021		4th	Cert& Eval	2020		4th	Cert& Eval	2019		4th	Cert& Eval	3 - Year		D. V.
		Valid	Percent			Valid	Percent			Valid	Percent			Percent	Design	
		Days	Complete	Max		Days	Complete	Max		Days	Complete	Max		Complete	Value	Validity
18-019-0008	12500 St. Rd. 62- Charlestown State Park/ Indiana Armory	245	100	.063	Y	240	98	.062	Y	244	100	.064	Y	99	.063	Y
18-043-1004	2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL	244	100	.064	Y	244	100	.066	Y	240	98	.063	Y	99	.064	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2011  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		Level: .07				State: Kentucky										
Site ID	Poc STREET ADDRESS	2011		4th	Cert& Eval	2010		4th	Cert& Eval	2009		4th	Cert& Eval	3 - Year		D. V.
		Valid	Percent			Valid	Percent			Valid	Percent			Percent	Design	
		Days	Complete	Max		Days	Complete	Max		Days	Complete	Max		Complete	Value	Validity
21-029-0006	SECOND & CARPENTER STREETS	242	99	.072	U	240	98	.074	U	244	100	.064	U	99	.070	Y
21-111-0051	7201 WATSON LN, WATSON LN ELEMENTARY SCH	243	99	.082	Y	244	100	.074	U	239	98	.078	Y	99	.078	Y
21-111-0067	2730 CANNONS LANE, BOWMAN FIELD	241	98	.082	Y	239	98	.085	U				*	65	.083	N
21-185-0004	KYTC MAINTENANCE FACILITY, 1601 SOUTH HWY 393	244	100	.090	U	242	99	.078	U	236	96	.068	U	98	.078	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2012  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		Level: .07				State: Kentucky										
Site ID	Poc STREET ADDRESS	2012		4th	Cert&	2011		4th	Cert&	2010		4th	Cert&	3 - Year		D. V.
		Valid	Percent			Valid	Percent			Valid	Percent			Percent	Design	
		Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
21-029-0006	SECOND & CARPENTER STREETS	244	100	.080	Y	242	99	.072	U	240	98	.074	U	99	.075	Y
21-111-0051	7201 WATSON LN, WATSON LN ELEMENTARY SCH	242	99	.081	M	243	99	.082	Y	244	100	.074	U	99	.079	Y
21-111-0067	2730 CANNONS LANE, BOWMAN FIELD	245	100	.090	M	241	98	.082	Y	239	98	.085	U	99	.085	Y
21-185-0004	KYTC MAINTENANCE FACILITY, 1601 SOUTH HWY 393	244	100	.092	Y	244	100	.090	U	242	99	.078	U	100	.086	Y

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AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2013  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		Level: .07				State: Kentucky										
Site ID	Poc STREET ADDRESS	2013		4th	Cert&	2012		4th	Cert&	2011		4th	Cert&	3 - Year		D. V.
		Valid	Percent			Valid	Percent			Valid	Percent			Percent	Design	
		Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
21-029-0006	SECOND & CARPENTER STREETS	242	99	.064	Y	244	100	.080	Y	242	99	.072	U	99	.072	Y
21-111-0051	7201 WATSON LN, WATSON LN ELEMENTARY SCH	0			* S	242	99	.081	M	243	99	.082	Y	66	.081	N
21-111-0067	2730 CANNONS LANE, BOWMAN FIELD	26	11	.038	* S	245	100	.090	M	241	98	.082	Y	70	.070	N
21-185-0004	KYTC MAINTENANCE FACILITY, 1601 SOUTH HWY 393	242	99	.064	Y	244	100	.092	Y	244	100	.090	U	100	.082	Y

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Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
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Design Value Year: 2014  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		Level: .07				State: Kentucky										
Site ID	Poc STREET ADDRESS	2014				2013				2012				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-029-0006	SECOND & CARPENTER STREETS	221	90	.065	Y	242	99	.064	Y	244	100	.080	Y	96	.069	Y
21-111-0051	7201 WATSON LN, WATSON LN ELEMENTARY SCH	230	94	.069	Y	0			* S	242	99	.081	M	64	.075	N
21-111-0067	2730 CANNONS LANE, BOWMAN FIELD	239	98	.070	Y	26	11	.038	* S	245	100	.090	M	70	.066	N
21-185-0004	KYTC MAINTENANCE FACILITY, 1601 SOUTH HWY 393	244	100	.068	Y	242	99	.064	Y	244	100	.092	Y	100	.074	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
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Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2015  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		Level: .07				State: Kentucky										
Site ID	Poc STREET ADDRESS	2015		4th	Cert& Eval	2014		4th	Cert& Eval	2013		4th	Cert& Eval	3 - Year		D. V.
		Valid	Percent			Valid	Percent			Valid	Percent			Percent	Design	
		Days	Complete	Max		Days	Complete	Max		Days	Complete	Max		Complete	Value	Validity
21-029-0006	SECOND & CARPENTER STREETS	239	98	.067	Y	221	90	.065	Y	242	99	.064	Y	96	.065	Y
21-111-0051	7201 WATSON LN, WATSON LN ELEMENTARY SCH	224	91	.069	Y	230	94	.069	Y	0			*	62	.069	N
21-111-0067	2730 CANNONS LANE, BOWMAN FIELD	244	100	.076	Y	239	98	.070	Y	26	11	.038*	S	70	.061	N
21-185-0004	KYTC MAINTENANCE FACILITY, 1601 SOUTH HWY 393	189	77	.073	Y	244	100	.068	Y	242	99	.064	Y	92	.068	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
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AIR QUALITY SYSTEM  
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Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2016  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		Level: .07				State: Kentucky										
Site ID	Poc STREET ADDRESS	2016		4th	Cert& Eval	2015		4th	Cert& Eval	2014		4th	Cert& Eval	3 - Year		D. V.
		Valid	Percent			Valid	Percent			Valid	Percent			Percent	Design	
		Days	Complete	Max		Days	Complete	Max		Days	Complete	Max		Complete	Value	Validity
21-029-0006	SECOND & CARPENTER STREETS	234	96	.067	Y	239	98	.067	Y	221	90	.065	Y	95	.066	Y
21-111-0051	7201 WATSON LN, WATSON LN ELEMENTARY SCH	235	96	.070	Y	224	91	.069	Y	230	94	.069	Y	94	.069	Y
21-111-0067	2730 CANNONS LANE, BOWMAN FIELD	243	99	.076	Y	244	100	.076	Y	239	98	.070	Y	99	.074	Y
21-185-0004	KYTC MAINTENANCE FACILITY, 1601 SOUTH HWY 393	237	97	.069	Y	189	77	.073	Y	244	100	.068	Y	91	.070	Y

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Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2017  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		Level: .07				State: Kentucky										
Site ID	Poc STREET ADDRESS	2017		4th	Cert&	2016		4th	Cert&	2015		4th	Cert&	3 - Year		D. V.
		Valid	Percent			Valid	Percent			Valid	Percent			Percent	Design	
		Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
21-029-0006	SECOND & CARPENTER STREETS	232	95	.063	Y	234	96	.067	Y	239	98	.067	Y	96	.065	Y
21-111-0051	7201 WATSON LN, WATSON LN ELEMENTARY SCH	234	96	.066	Y	235	96	.070	Y	224	91	.069	Y	94	.068	Y
21-111-0067	2730 CANNONS LANE, BOWMAN FIELD	361	99	.072	Y	243	99	.076	Y	244	100	.076	Y	99	.074	Y
21-185-0004	KYTC MAINTENANCE FACILITY, 1601 SOUTH HWY 393	236	96	.064	Y	237	97	.069	Y	189	77	.073	Y	90	.068	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.  
3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2018  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		Level: .07				State: Kentucky										
Site ID	Poc STREET ADDRESS	2018		4th	Cert&	2017		4th	Cert&	2016		4th	Cert&	3 - Year		D. V.
		Valid	Percent			Valid	Percent			Valid	Percent			Percent	Design	
		Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
21-029-0006	SECOND & CARPENTER STREETS	230	94	.068	S	232	95	.063	Y	234	96	.067	Y	95	.066	Y
21-111-0051	7201 WATSON LN, WATSON LN ELEMENTARY SCH	235	96	.069	Y	234	96	.066	Y	235	96	.070	Y	96	.068	Y
21-111-0067	2730 CANNONS LANE, BOWMAN FIELD	347	95	.077	Y	361	99	.072	Y	243	99	.076	Y	98	.075	Y
21-111-0080	4320 Billtown Road	215	88	.070	Y				*				*	29	.070	N
21-185-0004	KYTC MAINTENANCE FACILITY, 1601 SOUTH HWY 393	242	99	.069	S	236	96	.064	Y	237	97	.069	Y	97	.067	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2019  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		Level: .07				State: Kentucky										
Site ID	Poc STREET ADDRESS	2019		4th	Cert& Eval	2018		4th	Cert& Eval	2017		4th	Cert& Eval	3 - Year		D. V.
		Valid	Percent			Valid	Percent			Valid	Percent			Percent	Design	
		Days	Complete	Max		Days	Complete	Max		Days	Complete	Max		Complete	Value	Validity
21-029-0006	SECOND & CARPENTER STREETS	241	98	.063	Y	230	94	.068	S	232	95	.063	Y	96	.064	Y
21-111-0051	7201 WATSON LN, WATSON LN ELEMENTARY SCH	244	100	.065	Y	235	96	.069	Y	234	96	.066	Y	97	.066	Y
21-111-0067	2730 CANNONS LANE, BOWMAN FIELD	359	98	.068	Y	347	95	.077	Y	361	99	.072	Y	97	.072	Y
21-111-0080	4320 Billtown Road	236	96	.064	Y	215	88	.070	Y				*	61	.067	N
21-185-0004	KYTC MAINTENANCE FACILITY, 1601 SOUTH HWY 393	241	98	.065	Y	242	99	.069	S	236	96	.064	Y	98	.066	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2020  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		Level: .07				State: Kentucky										
Site ID	Poc STREET ADDRESS	2020		4th	Cert& Eval	2019		4th	Cert& Eval	2018		4th	Cert& Eval	3 - Year		D. V.
		Valid	Percent			Valid	Percent			Valid	Percent			Percent	Design	
		Days	Complete	Max		Days	Complete	Max		Days	Complete	Max		Complete	Value	Validity
21-029-0006	SECOND & CARPENTER STREETS	237	97	.065	Y	241	98	.063	Y	230	94	.068	S	96	.065	Y
21-111-0051	7201 WATSON LN, WATSON LN ELEMENTARY SCH	244	100	.063	Y	244	100	.065	Y	235	96	.069	Y	99	.065	Y
21-111-0067	2730 CANNONS LANE, BOWMAN FIELD	364	99	.071	Y	359	98	.068	Y	347	95	.077	Y	97	.072	Y
21-111-0080	4320 Billtown Road	242	99	.068	Y	236	96	.064	Y	215	88	.070	Y	94	.067	Y
21-185-0004	KYTC MAINTENANCE FACILITY, 1601 SOUTH HWY 393	237	97	.061	Y	241	98	.065	Y	242	99	.069	S	98	.065	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

Pollutant: Ozone(44201)  
Standard Units: Parts per million(007)  
NAAQS Standard: Ozone 8-hour 2015  
Statistic: Annual 4th Maximum

Design Value Year: 2021  
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

		2021				2020				2019				3 - Year		
		Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Percent	Design	D. V.
Site ID	Poc STREET ADDRESS	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
21-029-0006	SECOND & CARPENTER STREETS	233	95	.065	Y	237	97	.065	Y	241	98	.063	Y	97	.064	Y
21-111-0051	7201 WATSON LN, WATSON LN ELEMENTARY SCH	240	98	.067	Y	244	100	.063	Y	244	100	.065	Y	99	.065	Y
21-111-0067	2730 CANNONS LANE, BOWMAN FIELD	363	99	.069	Y	364	99	.071	Y	359	98	.068	Y	99	.069	Y
21-111-0080	4320 Billtown Road	224	91	.073	Y	242	99	.068	Y	236	96	.064	Y	95	.068	Y
21-185-0004	KYTC MAINTENANCE FACILITY, 1601 SOUTH HWY 393	242	99	.065	Y	237	97	.061	Y	241	98	.065	Y	98	.063	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.  
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 30, 2023

CERTIFICATION EVALUATION AND CONCURRENCE FLAG MEANINGS

FLAG	MEANING
M	The monitoring organization has revised data from this monitor since the most recent certification letter received from the state.
N	The certifying agency has submitted the certification letter and required summary reports, but the certifying agency and/or EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
U	Uncertified. The certifying agency did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
X	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
Y	The certifying agency has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).

**Notes:** 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
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3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

# **APPENDIX B**

## **Public Notice and Statement of Consideration**



**KENTUCKY DIVISION FOR AIR QUALITY PUBLIC NOTICE FOR  
1997 8-HOUR OZONE NATIONAL AMBIENT AIR QUALITY STANDARD, SECOND  
10-YEAR LIMITED MAINTENANCE PLAN FOR KENTUCKY PORTION OF THE  
LOUISVILLE KY-IN MAINTENANCE AREA**

The Kentucky Energy and Environment Cabinet (Cabinet) is requesting EPA's approval that the proposed State Implementation Plan (SIP) revision satisfies the requirements for the second 10-year Limited Maintenance Plan (LMP) for the 1997 8-hour ozone National Ambient Air Quality Standard (NAAQS) for Jefferson, Oldham and Bullitt counties located in the Louisville KY-IN 1997 8-hour ozone nonattainment area. The draft SIP revision LMP demonstrates that emissions continue to remain below the level of the 2003 attainment inventory. The draft SIP revision LMP also ensures the Kentucky Division for Air Quality (Division) and the Louisville Metro Air Pollution Control District (District) will continue to operate their monitoring network to verify continued attainment of the standard and provides a contingency plan in the event of a violation of the standard.

In accordance with 40 CFR 51.102, the Cabinet is making this proposed plan available for public inspection and provides the opportunity for public comment regarding Bullitt and Oldham counties. The proposed plan can be found at <https://eec.ky.gov/Environmental-Protection/Air/Pages/Public-Notices.aspx>. The public comment period will be open from June 1, 2023 through July 7, 2023. Comments should be submitted in writing to the contact person by either mail or email.

The Cabinet will conduct a virtual public hearing on July 7, 2023, at 10:00 a.m. (Eastern Time). This hearing will be held to receive comments on the proposed SIP revision. This hearing is open to the public and all interested persons will be given the opportunity to present testimony. To assure that all comments are accurately recorded, the Division requests that oral comments presented at the hearing are also provided in written form, if possible. It is not necessary that the hearing be held or attended in order for persons to comment on the proposed administrative regulation. If no request for a public hearing is received by June 30, 2023, the hearing will be cancelled, and notice of the cancellation will be posted at <https://eec.ky.gov/Environmental-Protection/Air/Pages/Public-Notices.aspx>. Written comments should be sent to the contact person and must be received by June 29, 2023, to be considered part of the public record.

Please note that registration is required to participate in this hearing. You must either email your name and mailing address to [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov) or mail this information to Blake Borwig, Division for Air Quality, 300 Sower Building, 2nd Floor, Frankfort, KY 40601. Please put "Registration for 1997 8-hour ozone NAAQS second 10-year LMP for the Kentucky portion of the Louisville KY-IN Maintenance Area public hearing" as the subject line, and state in the body of the message if you plan to speak during the hearing.

**CONTACT PERSON:** Blake Borwig, Environmental Scientist II, Evaluation Section, Division for Air Quality, 300 Sower Boulevard, Frankfort, Kentucky 40601. Phone: (502) 782-2751; Email: [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov).

**The Energy and Environment Cabinet does not discriminate on the basis of race, color, national origin, sex, age, religion or disability and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford an individual with a disability an equal opportunity to participate in all services, programs and activities.**