Steven L. Beshear
Governor

Energy and Environment Cabinet
Department for Environmental Protection
Division for Air Quality
200 Fair Oaks Lane, 1st Floor
Frankfort, Kentucky 40601-1403
air.ky.gov

Leonard K. Peters
Secretary

February 13, 2015

Beverly Banister, Director
Air, Pesticides and Toxics Management Division
U.S. Environmental Protection Agency, Region 4
Atlanta Federal Center
61 Forsyth Street
Atlanta, Georgia 30303

Dear Ms. Banister:

The Kentucky Division for Air Quality is respectfully submitting 2014 hourly ozone and sulfur dioxide data, as well as five-minute sulfur dioxide data, for certification. The data, for which certification is requested, is listed on the following attached AQS-generated reports:

- AMP600: hourly averaged ozone data (parameter code 44201) and sulfur dioxide data (parameter code 42401)
- AMP450nc: five-minute averaged sulfur dioxide data (parameter code 42406)

I hereby certify that the ambient concentration data and the quality assurance data are completely submitted to AQS. I also certify that, to the best of my knowledge, the ambient air concentration data are accurate, taking into account the quality assurance findings.

If there are any questions or concerns, please contact Ms. Jennifer Miller, Environmental Scientist with our Technical Services Branch, at (502) 564-3999, extension 4050.

Sincerely,

Sean Alteri

Sean Alteri,
Director

SA/jfm
Enclosures

c: Darren Palmer, USEPA Region 4
Daniel Garver, USEPA Region 4
Keith Goff, USEPA Region 4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: FNX

CERTIFICATION EVALUATION AND CONCURRENCE

Report Request ID: 1297134

Report Code: AMP600

Feb. 13, 2015

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	21										

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
CRITERIA	44201		
CRITERIA	42401		

AGENCY SELECTIONS

Kentucky Division For Air Quality

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
AGENCY ROLE	CERTIFYING

DATE CRITERIA

Start Date	End Date
2014	2014

Data Evaluation and Concurrence Report Summary

Certification Year: 2014
Certifying Agency (CA): Kentucky Division For Air Quality (0584)

Pollutants in Report:

Parameter Name	Code	Monitors Evaluated	Monitors Recommended for Concurrence by AQS	Monitors NOT Recommended for Concurrence by AQS
Ozone	44201	22	22	0
Sulfur dioxide	42401	9	9	0

PQAOs in Report:

PQAO Name	PQAO Code	TSA Date
Kentucky Division For Air Quality	0584	06/19/12

Summary of 'N' flags for all pollutants:

PQAO	Parameter Code	AQS Site-ID	POC	AQS Recommended Flag	Cert. Agency Recommended Flag	Reason for AQS Recommendation

Signature of Monitoring Organization Representative: Sean Alteri

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2014
Certifying Agency Code Kentucky Division For Air Quality (0584)
Parameter Ozone (44201) (ppm)
PQAO Name Kentucky Division For Air Quality (0584)
QAPP Approval Date 04/21/2011

NPAP Audit Summary:

Number of Valid Audits	NPAP Bias	Criteria Met
7	-1.2658	Y

AQS Site ID	POC	Monitor Type	Routine Data Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	One Point Quality Check Precision	Bias	Complete	Annual PE Bias	Complete	NPAP Bias	PQAO Level Criteria	QAPP Appr.	Concur. Flag Aqs Rec Flag	CA Rec Flag	Epa Concur
21-013-0002	1	SPM	0.045	0.013	0.071	0	0	97	2.06	+/-1.90	94	- 2.48	100		Y	Y	Y	Y	S
21-015-0003	1	SLAMS	0.046	0.014	0.072	0	0	99	2.14	+/-1.98	100	- 1.12	100		Y	Y	Y	Y	S
21-019-0017	1	SLAMS	0.049	0.019	0.083	0	0	99	1.48	+3.94	100	- 1.62	100		Y	Y	Y	Y	S
21-029-0006	1	SLAMS	0.047	0.015	0.088	0	0	90	1.57	+2.44	94	- 3.56	100		Y	Y	Y	Y	S
21-037-3002	1	SLAMS	0.051	0.022	0.082	0	0	99	3.77	+/-4.29	94	- 2.38	100		Y	Y	Y	Y	S
21-043-0500	1	SPM	0.045	0.017	0.068	0	0	99	1.27	+/-1.00	100	- 1.67	100		Y	Y	Y	Y	S
21-047-0006	2	SLAMS	0.047	0.014	0.075	0	0	99	1.17	+/-1.13	100	- 0.84	100		Y	Y	Y	Y	S
21-059-0005	1	SLAMS	0.048	0.017	0.077	0	0	98	3.32	+4.42	100	- 1.07	100		Y	Y	Y	Y	S
21-067-0012	1	SLAMS	0.049	0.014	0.074	0	0	99	1.60	+2.62	100	- 0.90	100		Y	Y	Y	Y	S
21-089-0007	1	SLAMS	0.047	0.010	0.075	0	0	99	0.99	+1.42	100	- 0.27	100		Y	Y	Y	Y	S
21-091-0012	1	SLAMS	0.049	0.018	0.082	0	0	96	1.76	+/-1.88	100	- 1.72	100		Y	Y	Y	Y	S
21-093-0006	1	SLAMS	0.047	0.019	0.072	0	0	90	4.46	+/-4.22	94	- 2.32	100		Y	Y	Y	Y	S
21-101-0014	1	SPM	0.050	0.019	0.080	0	0	98	1.49	+3.25	100	0.37	100		Y	Y	Y	Y	S
21-113-0001	1	SLAMS	0.049	0.019	0.074	0	0	99	1.50	+3.95	100	- 2.23	100		Y	Y	Y	Y	S
21-139-0003	1	SLAMS	0.049	0.019	0.074	0	0	100	1.17	+2.08	100	- 0.86	100		Y	Y	Y	Y	S
21-145-1024	1	SLAMS	0.047	0.016	0.077	0	0	99	2.24	+/-1.50	100	- 2.08	100		Y	Y	Y	Y	S
21-185-0004	1	SLAMS	0.049	0.021	0.083	0	0	99	3.39	-3.43	100	- 0.61	100		Y	Y	Y	Y	S
21-193-0003	1	SPM	0.043	0.014	0.067	0	0	100	1.40	+3.33	100	- 1.72	100	- 4.17	Y	Y	Y	Y	S
21-195-0002	1	SPM	0.044	0.014	0.084	0	0	99	0.79	+2.90	100	- 1.32	100	- 2.86	Y	Y	Y	Y	S
21-199-0003	1	SPM	0.047	0.016	0.074	0	0	99	1.30	+1.78	100	0.78	100		Y	Y	Y	Y	S
21-213-0004	1	SPM	0.047	0.013	0.074	0	0	99	2.23	+/-2.05	88	- 2.38	100	- 3.77	Y	Y	Y	Y	S
21-227-0009	1	SLAMS	0.048	0.016	0.075	0	0	98	2.46	+/-2.15	94	- 1.17	100	3.77	Y	Y	Y	Y	S

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2014
Certifying Agency Code Kentucky Division For Air Quality (0584)
Parameter Sulfur dioxide (42401) (ppb)
PQAO Name Kentucky Division For Air Quality (0584)
QAPP Approval Date 04/21/2011

NPAP Audit Summary:

Number of Valid Audits	NPAP Bias	Criteria Met
2	-5.0725	Y

AQS Site ID	POC	Monitor Type	Routine Data Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	One Point Quality Check Precision	Bias	Complete	Annual PE Bias	Complete	NPAP Bias	PQAO Level Criteria	QAPP Appr.	Concur. Flag Aqs Rec Flag	CA Rec Flag	Epa Concur
21-019-0017	1	SLAMS	0.5	0.0	51.0		0	99	1.86	-3.89	100	- 0.89	100		Y	Y	Y	Y	S
21-037-3002	1	SLAMS	1.5	0.0	93.0		0	99	2.19	-3.43	100	- 2.36	100		Y	Y	Y	Y	S
21-047-0006	2	SPM	0.6	0.0	31.0		0	99	4.49	+4.48	85	6.83	100		Y	Y	Y	Y	S
21-059-0005	1	SLAMS	1.6	0.0	65.0		0	99	4.05	+/-3.18	100	3.34	100		Y	Y	Y	Y	S
21-067-0012	1	SLAMS	0.3	0.0	28.0		0	99	2.13	-2.49	100	- 0.32	100		Y	Y	Y	Y	S
21-089-0007	1	SPM	0.6	0.0	23.0		0	99	2.05	+1.99	100	1.10	100		Y	Y	Y	Y	S
21-101-0014	1	SLAMS	0.9	0.0	38.0		0	99	0.87	-1.34	100	2.29	100		Y	Y	Y	Y	S
21-113-0001	1	SPM	0.4	0.0	19.0		0	99	2.13	-4.35	100	3.27	100		Y	Y	Y	Y	S
21-145-1024	1	SLAMS	0.4	0.0	38.0		0	98	4.54	-4.59	96	- 0.36	100		Y	Y	Y	Y	S

Data Evaluation and Concurrence Report for Particulate Matter

Data Concurrence and Evaluation Report for Lead

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: FNX

QUICKLOOK ALL PARAMETERS

Report Request ID: 1297136 Report Code: AMP450NC Feb. 13, 2015

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	21										

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
ALL	42406		

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
EVENTS PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
AGENCY ROLE	PQAO

SORT ORDER

Order	Column
1	STATE_CODE
2	COUNTY_CODE
3	SITE_ID
4	PARAMETER_CODE
5	POC
6	DATES
7	EDT_ID

SCR GROUP SELECTIONS

Kentucky

DATE CRITERIA

Start Date	End Date
2014	2014

APPLICABLE STANDARDS

Standard Description

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Feb. 13, 2015

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

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Parameter	Unit	POC	PQAO	Year	Meth	# Obs	1st Max Value	2nd Max Value	3rd Max Value	4th Max Value	Arith. Mean	Duration	Cert& Eval	EDT
Site ID: 21-019-0017 City: Ashland	County: Boyd						Address: FIVCO HEALTH DEPARTMENT, 2924 HOLT STREET							
42406 SO2 max 5-min avg	Parts per billion	1	0584	2014	100	8690	76.0	52.0	42.0	40.0	.79	1 HOUR		0
Site ID: 21-037-3002 City: Highland Heights	County: Campbell						Address: 524A JOHN'S HILL ROAD							
42406 SO2 max 5-min avg	Parts per billion	1	0584	2014	100	8673	218.0	163.0	140.0	125.0	2.30	1 HOUR		0
Site ID: 21-047-0006 City: Not in a city	County: Christian						Address: WILLIAMSON RESIDENCE, 10800 PILOT ROCK ROAD							
42406 SO2 max 5-min avg	Parts per billion	2	0584	2014	100	7240	36.0	31.0	29.0	27.0	.85	1 HOUR		0
Site ID: 21-059-0005 City: Not in a city	County: Daviess						Address: 716 PLEASANT VALLEY ROAD							
42406 SO2 max 5-min avg	Parts per billion	1	0584	2014	100	8703	133.0	124.0	121.0	101.0	2.95	1 HOUR		0
Site ID: 21-067-0012 City: Lexington-Fayette (corporate name for Lexington)	County: Fayette						Address: FAYETTE COUNTY HEALTH DEPT, 650 NEWTOWN PIKE							
42406 SO2 max 5-min avg	Parts per billion	1	0584	2014	100	8714	35.0	22.0	22.0	21.0	.52	1 HOUR		0
Site ID: 21-089-0007 City: Worthington	County: Greenup						Address: SCOTT STREET & CENTER AVENUE							
42406 SO2 max 5-min avg	Parts per billion	1	0584	2014	100	8694	31.0	30.0	22.0	22.0	.88	1 HOUR		0
Site ID: 21-101-0014 City: Not in a city	County: Henderson						Address: BASKETT FIRE DEPARTMENT, 7492 DR. HODGE ROAD							
42406 SO2 max 5-min avg	Parts per billion	1	0584	2014	100	8694	66.0	60.0	59.0	57.0	1.71	1 HOUR		0
Site ID: 21-113-0001 City: Nicholasville	County: Jessamine						Address: KYTC MAINTENANCE GARAGE, 260 WILSON DRIVE							
42406 SO2 max 5-min avg	Parts per billion	1	0584	2014	100	8710	32.0	19.0	19.0	17.0	.55	1 HOUR		0
Site ID: 21-145-1024 City: Paducah	County: McCracken						Address: JACKSON PURCHASE RECC, 2901 POWELL STREET							
42406 SO2 max 5-min avg	Parts per billion	1	0584	2014	100	8588	46.0	40.0	38.0	34.0	.70	1 HOUR		0

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Feb. 13, 2015

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
42406	100	INSTRUMENTAL	ULTRAVIOLET FLUORESCENCE

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Feb. 13, 2015

PQAOS USED IN THIS REPORT

PQAO	AGENCY DESCRIPTION
0584	Kentucky Division For Air Quality

Note: The * indicates that the mean does not satisfy summary criteria.

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).

Note: The * indicates that the mean does not satisfy summary criteria.