

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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January 13, 2021

Michael Compher
U.S. Environmental Protection Agency – Region 5
77 West Jackson Blvd.
Chicago, IL 60604

Subject: 2020 Wisconsin Ambient Air Monitoring Data Certification for selected sites

Dear Michael:

Enclosed you will find an AMP600 and AMP450NC data certification reports dated January 7, 2020 and a summary of 2020 sulfur dioxide (SO₂) and ozone (O₃) pollutant data QC completeness for the following sites:

- Kaukauna (55-087-0015), SO₂ monitors in Outagamie County
- Manitowoc (55-071-0007), O₃ monitor in Manitowoc County

In compliance with paragraph (c) of 40 CFR 58.15(a), I certify that the criteria ambient air data and quality assurance data submitted by the Wisconsin Department of Natural Resources (Reporting Organization 1175) for these select O₃ and SO₂ monitors are submitted completely to AQS and ambient monitoring data are accurate to the best of my knowledge, taking into consideration the quality assurance findings. These reports include data collected from January 1 through December 31, 2020. All data submitted to AQS and transmitted with this certification are valid for use in area designations and for any other regulatory purposes.

On December 21, 2020, based on the 2017 – 2019 Kaukauna SO₂ monitor data, EPA signed a final rule designating portions of Outagamie County as “nonattainment” for the 2010 SO₂ NAAQS. This certification is being expedited to allow EPA to use the most recently available certified data (2018 – 2020) to make a designation of “attainment/unclassifiable” for all of Outagamie County prior to the April 30, 2021 effective date, as permitted by EPA’s final rule and recommended in EPA’s, “Responses to Comments on EPA’s Intended Designations for the 2010 Sulfur Dioxide Primary National Ambient Air Quality Standard (NAAQS) – Round 4 Docket No. EPA-HQ-OAR-2020-0037.”

If the Kaukauna monitor produces a valid attaining design value for the 2018-2020 period, and Wisconsin submits the certified data to EPA prior to the February 15, 2021, deadline, then EPA intends to withdraw the nonattainment designation announced in the December 2020 action for the Outagamie County area and change the initial designation to attainment/unclassifiable.

As WDNR noted in its October 15, 2020 letter to EPA Region 5, the state is not providing any air quality modeling, since the ambient air monitoring data is from a SO₂ Data Requirements Rule source-oriented monitor located in the area of highest concentration.

If you have any questions about this data, please contact Jason Treutel at Jason.Treutel@wisconsin.gov. For questions about Outagamie County's designation, please contact Olivia Salmon at Olivia.Salmon@wisconsin.gov.

Sincerely,



Katie Praedel
Chief, Air Monitoring Section

cc: Marta Fuoco, EPA Region 5
Michael Compher, EPA Region 5
Pamela Blakley, EPA Region 5
Doug Aburano, EPA Region 5
Alisa Liu, EPA Region 5
Bart Sponseller – AM/7 (letter only)
Gail Good, AM/7
Kristin Hart, AM/7
Jason Treutel, AM/7
Brianna Denk, AM/7
Olivia Salmon, AM/7

Summary of 2020 Manitowoc Ozone and Kaukauna Sulfur Dioxide Data and QC Completeness

As part of the 2020 data certification packet WDNR is submitting this formal summary to address each site/parameter that did not meet data completeness requirements or lacked required QA/QC data in AQS at the time of data certification and which therefore caused the reports to indicate a criteria in the warning or critical range. Thresholds used for identifying items to include in this report include:

- Any quarterly completeness < 75% based on the AMP430 report (valid observations/expected observations)
- Any QC indicator in the warning or critical ranges identified on the AMP600 report
 - Special Note on 1-point QC checks: The AMP600 report generally gives credit for fewer checks than WDNR accounting of checks. This is due to a discrepancy in how the AMP600 creates date bins (two week periods based on the 1st day of the year or season) versus how WDNR creates date bins (two week periods based on Sunday to Sunday two week periods) for determining biweekly periods within which checks must fall to be credited. As a result the AMP600 report typically credits fewer checks than WDNR does using its methodology.

Data Completeness

AQS	Parameter	POC	Quarterly Completeness	Discussion
				<ul style="list-style-type: none"> • No completeness issues (quarters <75%) identified

QC Criteria in Warning/Critical Range

AQS	Parameter	POC	Criteria	Discussion
				<ul style="list-style-type: none"> • No QC Criteria in Warning/Critical Range

WDNR Criteria Pollutant QAPPs

Criteria Pollutant	QAPP Approval Date
Carbon Monoxide	5/25/2017
Nitrogen Dioxide	7/20/2017
Ozone	7/28/2016
Sulfur Dioxide	1/23/2019
Hi-Vol: PM10/TSP-Pb	11/13/2017
Lo-Vol: PM2.5/PM10	4/25/2018

User ID: XJTREUTEL

CERTIFICATION EVALUATION AND CONCURRENCE

Report Request ID: 1895329

Report Code: AMP600

Jan. 7, 2021

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	55	071	0007								
	55	087	0015								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
CRITERIA	44201		
CRITERIA	42401		

AGENCY SELECTIONS

Wisconsin Dept Of Natural Resources, Air Monitoring Section

SELECTED OPTIONS

Option Type	Option Value
AGENCY ROLE	CERTIFYING
MERGE PDF FILES	YES

DATE CRITERIA

Start Date	End Date
2020	2020

Certification Year: 2020

Certifying Agency (CA): Wisconsin Dept Of Natural Resources, Air Monitoring Section (1175)

Pollutants in Report:

<u>Parameter Name</u>	<u>Code</u>	<u>Monitors Evaluated</u>	<u>Monitors Recommended for Concurrence by AQS</u>	<u>Monitors NOT Recommended for Concurrence by AQS</u>
Ozone	44201	1	1	0
Sulfur dioxide	42401	1	1	0

PQAOs In Report:

<u>PQAO Name</u>	<u>PQAO Code</u>	<u>TSA Date</u>
Wisconsin Dept Of Natural Resources, Air Monitoring Section	1175	07/09/18

Summary of 'N' flags for all pollutants:

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

Signature of Monitoring Organization Representative: _____

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2020
Certifying Agency Code Wisconsin Dept Of Natural Resources, Air Monitoring Section (1175)
Parameter Ozone (44201) (ppm)

PQAO Name Wisconsin Dept Of Natural Resources, Air Monitoring Section (1175)
QAPP Approval Date 07/28/2016

NPAP Audit Summary:

Number of Passed Audits	NPAP Bias	Criteria Met
6	1.12180	Y

AQS Site ID	POC Monitor Type	Routine Data						One Point Quality Check			Annual PE		NPAP		Concur. Flag			
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias	Complete	Bias	Complete	Bias	PQAO Level Criteria	QAPP Appr.	Aqs Rec Flag	CA Rec Flag	Epa Concur
55-071-0007 1	SLAMS	0.043	0.014	0.086	0	0	92	0.77	+1.18	100	1.51	100		Y	Y	Y	Y	S

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2020
Certifying Agency Code Wisconsin Dept Of Natural Resources, Air Monitoring Section (1175)
Parameter Sulfur dioxide (42401) (ppb)

PQAO Name Wisconsin Dept Of Natural Resources, Air Monitoring Section (1175)
QAPP Approval Date 12/29/2016

NPAP Audit Summary:	Number of Passed Audits	NPAP Bias	Criteria Met
	1	4.03873	Y

AQS Site ID	POC Monitor Type	Routine Data						One Point Quality Check			Annual PE		NPAP		Concur. Flag		
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias	Complete	Bias	Complete	Bias	PQAO Level Criteria	QAPP Appr.	Aqs Rec Flag	CA Rec Flag
55-087-0015	1 INDUSTRIAL	1.0	- 1.8	91.0		0	99	2.81	+/-2.44	92	8.62	100	Y	Y	Y	Y	S

Data Evaluation and Concurrence Report for Particulate Matter

Data Concurrence and Evaluation Report for Lead

User ID: XJTREUTEL

QUICKLOOK ALL PARAMETERS

Report Request ID: 1895330

Report Code: AMP450NC

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GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	55	087	0015								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
CRITERIA	42401		H
ALL	86101		

AGENCY SELECTIONS

Wisconsin Dept Of Natural Resources, Air Monitoring Section

SELECTED OPTIONS

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

SORT ORDER

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

DATE CRITERIA

Start Date	End Date
2020	2020

APPLICABLE STANDARDS

Standard Description

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Jan. 7, 2021

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	P O C	PQAO	Year	Meth	# Obs	1st Max Value	2nd Max Value	3rd Max Value	4th Max Value	Arith. Mean	Cert & Duration Eval	EDH
Site ID: 55-087-0015 City: Kaukauna		County: Outagamie		Address: 601 Plank Rd.									
42401 Sulfur dioxide	Parts per billion	2	1175	2020	000	101304	352.4	201.2	200.5	179.9	.99	5 MINUTE	0

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

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METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
42401	000	MULTIPLE METHODS	MULTIPLE METHODS

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

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PQAOS USED IN THIS REPORT

PQAO	AGENCY DESCRIPTION
1175	Wisconsin Dept Of Natural Resources, Air Monitoring Section

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

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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.