



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

SECRETARY

July 30, 2014

Mr. Shawn M. Garvin
Regional Administrator
U.S. Environmental Protection Agency, Region III
1650 Arch Street (Mail Code: 3RA00)
Philadelphia, PA 19103-2029

Dear Mr. Garvin:

The purpose of this letter is to update the Pennsylvania Department of Environmental Protection's (DEP) designation recommendations, submitted to the U.S. Environmental Protection Agency (EPA) on December 10, 2013, for the 2012 annual fine particulate matter (PM_{2.5}) National Ambient Air Quality Standard (NAAQS). The Commonwealth submitted its recommendations to EPA in accordance with Section 107 of the Clean Air Act, 42 U.S.C.A. § 7407.

Since its December 10, 2013, designation recommendations, DEP has certified ambient air quality monitoring of PM_{2.5} concentrations for 2011-2013 which demonstrates that five additional counties in Pennsylvania are monitoring attainment of the 2012 annual PM_{2.5} NAAQS. After analysis of this most recent certified data, DEP is changing its recommendation from "nonattainment" to "attainment" for the following counties as these areas now meet the 2012 annual PM_{2.5} NAAQS:

- Allegheny County (except for Liberty/Clairton area).
- Chester County
- Lancaster County
- Philadelphia County
- Westmoreland County

DEP is also changing its recommendation for Lebanon County from "unclassifiable/attainment" to "nonattainment" since this area does not meet the 2012 annual PM_{2.5} NAAQS. The Lebanon PM_{2.5} monitor installed on March 10, 2011, did not have three years of data by December 2013. Based on the 2011-2013 PM_{2.5} ambient monitoring data, the Lebanon monitor exceeds the 2012 annual PM_{2.5} NAAQS with a design value of 12.3 micrograms per cubic meter. For this reason, a recommendation of "nonattainment" is appropriate for Lebanon County.

DEP respectfully requests that EPA concur with the Commonwealth of Pennsylvania's modified recommendations as contained in this letter and supported by the enclosures to this letter. To this end, enclosed is a copy of my April 24, 2014, letter to you concerning the certified

Pennsylvania 2013 ambient air quality data along with the AMP 480 report which compares the 2012 and 2013 design values.

Should you have questions or need additional information during the development of EPA's final PM_{2.5} NAAQS designations for Pennsylvania, please contact Joyce E. Epps, Director, Bureau of Air Quality, by e-mail at jeepps@pa.gov or by telephone at 717.787.9702.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Christopher Abruzzo". The signature is written in a cursive style with a large initial "E".

E. Christopher Abruzzo
Secretary

Enclosures



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION
SECRETARY

April 24, 2014

Mr. Shawn Garvin
Regional Administrator
U.S. Environmental Protection Agency, Region III
1650 Arch Street (Mail Code: 3RA00)
Philadelphia, PA 19103-2029

Dear Mr. Garvin:

As required under 40 Code of Federal Regulations (CFR), Part 58.15, I hereby certify that, to the best of my knowledge, the Pennsylvania 2013 ambient concentration data and the quality assurance data collected and analyzed by the Pennsylvania Department of Environmental Protection (DEP) are completely submitted to the Air Quality System (AQS) database, and the ambient data are accurate taking into consideration the quality assurance findings. In addition, I certify that the data collection procedures conform to the applicable quality assurance, air monitoring methodology, probe siting criteria and reporting requirements in Part 58 of the CFR, Appendices A, C, and E. Please note that the certification letter for the 2013 lead and SO₂ data was previously sent to the Environmental Protection Agency on March 31, 2014.

I am enclosing copies of the AMP 450NC and AMP 600 reports to identify the data that are being certified. The AMP 450NC reports apply to non-criteria NO and NO_x data, as reported by DEP, and speciated PM_{2.5} data which was collected by DEP but analyzed and reported by Research Triangle Institute.

Should you have any questions or need additional information, please contact Joyce E. Epps, Director, Bureau of Air Quality, by e-mail at jeepps@pa.gov or by telephone at 717.787.9702.

Sincerely,

A handwritten signature in cursive script that reads "E. Christopher Abruzzo".

E. Christopher Abruzzo
Secretary

Enclosures

User ID: AES

DESIGN VALUE REPORT

Report Request ID: 1235731

Report Code: AMP480

Jul. 23, 2014

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
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42

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
DESIGN VALUE	88101		

SELECTED OPTIONS

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

DATE CRITERIA

Start Date	End Date
2012	2013

APPLICABLE STANDARDS

Standard Description
PM25 24-hour 2013
PM25 Annual 2013

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

Report Date: Jul. 23, 2014

- Notes:**
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 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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 AIR QUALITY SYSTEM
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jul. 23, 2014

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Standard Units: Micrograms/cubic meter (LC)(105)
NAAQS Standard: PM25 24-hour 2013 / PM25 Annual 2013
Statistic: Annual Weighted Mean **Level:** 12
Statistic: Annual 98th Percentile **Level:** 35

Design Value Year: 2012

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

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	<u>Cred.</u>	<u>Comp.</u>	<u>98th</u>	<u>Wtd.</u>	<u>Cert&</u>	<u>Cred.</u>	<u>Comp.</u>	<u>98th</u>	<u>Wtd.</u>	<u>Cert&</u>	<u>Cred.</u>	<u>Comp.</u>	<u>98th</u>	<u>Wtd.</u>	<u>Cert&</u>	<u>Design</u>	<u>Valid</u>	<u>Design</u>	<u>Valid</u>
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
42-001-0001 NARSTO SITE - ARENDSVILLE	335	4	27.7	11.0		336	4	30.2	12.2		348	4	31.0	11.7		30	Y	11.6	Y
42-003-0002 520 ORCHARD AVE, AVALON	111	4	20.9	10.9	S	205	4	29.8	13.1		358	4	37.7	16.3		29	Y	13.4	Y
42-003-0008 301 39TH ST, BLDG #7, LAWRENCEVILLE	343	4	20.4	10.1	S	346	4	27.3	11.1		342	4	29.7	12.2		26	Y	11.1	Y
42-003-0064 2743 WASHINGTON BLVD, LIBERTY	344	4	42.5	14.3	S	339	4	38.0	14.0		340	4	48.8	16.0		43	Y	14.8	Y
42-003-0067 3640 OLD OAKDALE RD, SOUTH FAYETTE	108	4	18.1	9.2	S	107	4	30.6	10.6		111	4	28.5	11.7		26	Y	10.5	Y
42-003-0093 KUMMER RD, GOLF CLUBHOUSE, NORTH PARK	54	4	16.4	8.6	S	50	3	25.6*	9.0 *		52	3	26.5*	10.5*		23	Y	9.4	Y
42-003-0095 1000 BEAVER GRADE RD CORAOPOLIS PA	0	0	*	*		0	0	*	*		53	3	26.4*	11.5*		26	N	11.5	N
42-003-1008 PACIFIC & IDAHO AVE, HARRISON	110	4	20.7	10.5	S	104	3	29.8*	11.6 *		111	4	34.0	13.0		28	Y	11.7	N
42-003-1301 600 ANDERSON ST, NORTH BRADDOCK	100	3	26.8*	11.5	S	100	3	33.7*	12.3		106	4	37.2	13.7		33	Y	12.5	Y
42-003-3007 501 WADDELL AVE, CLAIRTON	54	4	19.2	9.4	S	49	3	30.3*	10.7 *		55	4	28.2	12.5		26	N	10.9	N
42-005-0001 GLADE DR. & NOLTE RD. KITTANNING	347	4	20.9	9.7		312	3	28.2*	12.1		348	4	31.9	13.2		27	Y	11.7	Y

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 AIR QUALITY SYSTEM
 PRELIMINARY DESIGN VALUE REPORT

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42-007-0014 EIGHT STREET AND RIVER ALLEY	358	4	22.6	11.9		364	4	29.8	11.7		319	4	29.4	12.5		27	Y	12.0	Y
42-011-0011 1059 Arnold Road	364	4	26.3	11.3		362	4	26.4	11.3		328	4	26.7	10.0		26	Y	10.9	Y
42-013-0801 2ND AVE & 7TH ST	346	4	26.4	11.7		345	4	30.1	11.8		197	2	26.8*	5.9*		28	N	9.8	N
42-017-0012 ROCKVIEW LANE	361	4	28.2	10.7		364	4	29.7	11.5		354	4	28.3	10.5		29	Y	10.9	Y
42-021-0011 MILLER AUTO SHOP 1 MESSENGER ST	342	4	28.0	11.6		332	4	32.5	13.4		364	4	30.2	11.9		30	Y	12.3	Y
42-027-0100 PENN STATE UNIVERSITY - ARBORETUM SITE	361	4	22.5	9.8		355	4	28.5	9.5		359	4	25.5	9.1		26	Y	9.5	Y
42-029-0100 NEW GARDEN AIRPORT - TOUGHKENAMON	330	4	24.1	9.8		293	3	33.8*	13.2		341	4	35.1	13.8		31	Y	12.3	Y
42-041-0101 IMPERIAL COURT	365	4	29.2	10.9		362	4	30.4	11.5		365	4	31.4	10.6		30	Y	11.0	Y
42-043-0401 651 Gibson Blvd., Harrisburg, PA 17104	351	4	28.1	11.6		352	4	31.2	12.1		360	4	32.9	12.0		31	Y	11.9	Y
42-045-0002 FRONT ST & NORRIS ST	288	3	31.1*	12.8		336	4	28.6	12.9		346	4	32.8	13.5		31	N	13.1	Y
42-049-0003 10TH AND MARNE STREETS	346	4	25.3	11.2		346	4	26.7	11.4		320	3	30.2*	11.1*		27	Y	11.2	N

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42-069-2006 GEORGE ST TROOP AND CITY OF SCRANTON	344	4	19.7	8.3		354	4	23.4	9.3		347	4	27.7	9.7		24	Y	9.1	Y
42-071-0007 ABRAHAM LINCOLN JR HIGH GROFFTOWN RD	366	4	28.9	12.6		364	4	29.9	12.0		343	4	34.1	11.7		31	Y	12.1	Y
42-075-0100 125 Birch Road	338	4	33.3	14.2		260	3	29.3*	11.4		0	0	*	*		31	N	12.8	N
42-085-0100 PA518 (NEW CASTLE ROAD) & PA418	359	4	22.5	10.9		361	4	25.7	10.1		316	3	27.4*	10.9*		25	Y	10.6	Y
42-089-0002 HC 1, BOX 95-B NEAR RT 611 & BROOKDALE ROAD	348	4	19.3	7.9		331	4	20.3	6.4		190	2	25.8*	9.7*		22	N	8.0	N
42-091-0013 STATE ARMORY - 1046 BELVOIR RD	362	4	21.8	9.7		365	4	27.6	10.3		330	4	25.9	9.5		25	Y	9.8	Y
42-095-0025 WASHINGTON & CAMBRIA STS. FREEMANSBURG	351	4	27.6	11.5		340	4	35.2	14.5		335	4	33.3	13.7		32	Y	13.2	Y
42-095-0027 2604 Schoenersville Road	321	3	26.0*	10.9*		348	4	29.8	11.2		346	4	27.6	9.8		28	Y	10.6	Y
42-101-0004 1501 E. LYCOMING AVE.	47	3	21.1*	9.7*		57	4	23.7	8.9		329	4	27.6	10.7		24	Y	9.8	Y
42-101-0024 GRANT-ASHTON ROADS PHILA NE AIRPORT	0	0	*	*		0	0	*	*		352	4	25.2	9.6		25	N	9.6	N
42-101-0047 500 SOUTH BROAD STREET-PARKING LOT (CHS)	337	4	21.8	10.2		308	4	27.9	11.4		316	4	28.3	11.0		26	Y	10.9	Y

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42-101-0055 24TH & RITNER STREETS	325	4	24.8	10.3		335	4	30.6	11.4		336	4	28.9	11.3		28	Y	11.0	Y
42-101-0057 240 Spring Garden Street	328	4	23.3	10.1		345	4	30.5	11.4		323	4	27.9	10.9		27	Y	10.8	Y
42-101-1002 5200 PENNYPACK PARK PHILADELPHIA, PA. 19136	311	4	23.5	10.3		302	4	19.3	8.9		0	0	*	*		21	N	9.6	N
42-125-0005 CHARLER01 WASTE TREATMENT PLANT	351	4	23.4	10.4		317	3	28.6*	12.0*		352	4	27.0	13.2		26	Y	11.9	N
42-125-0200 MCCARRELL AND FAYETTE STS	366	4	20.6	10.5		364	4	27.4	10.8		351	4	27.0	12.1		25	Y	11.1	Y
42-125-5001 HILLMAN STATE PARK - KINGS CREEK ROAD	348	4	15.8	6.9		343	4	12.3	5.9		347	4	22.2	8.9		17	Y	7.2	Y
42-125-5200 220 Meddings Road	145	1	18.4*	9.0*		0	0	*	*		0	0	*	*		18	N	9.0	N
42-129-0008 DONOHOE ROAD - PENN DOT MAINT DIST BLDG	363	4	22.8	10.1		309	3	32.8*	13.7		345	4	32.4	14.0		29	N	12.6	Y
42-133-0008 HILL ST.	365	4	28.4	12.0		349	4	28.0	11.6		352	4	29.7	11.3		29	Y	11.7	Y

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42-003-0008 301 39TH ST, BLDG #7, LAWRENCEVILLE	360	4	20.8	9.8	S	343	4	20.4	10.1	S	346	4	27.3	11.1		23	Y	10.3	Y
42-003-0064 2743 WASHINGTON BLVD, LIBERTY	357	4	31.1	12.0	S	344	4	42.5	14.3	S	339	4	38.0	14.0		37	Y	13.4	Y
42-003-0067 3640 OLD OAKDALE RD, SOUTH FAYETTE	112	4	23.5	8.9	S	108	4	18.1	9.2	S	107	4	30.6	10.6		24	Y	9.6	Y
42-003-0093 KUMMER RD, GOLF CLUBHOUSE, NORTH PARK	57	4	16.0	8.7	S	54	4	16.4	8.6	S	50	3	25.6*	9.0*		19	Y	8.8	Y
42-003-1008 PACIFIC & IDAHO AVE, HARRISON	117	4	24.2	9.6	S	110	4	20.7	10.5	S	104	3	29.8*	11.6*		25	Y	10.6	Y
42-003-1301 600 ANDERSON ST, NORTH BRADDOCK	111	4	26.1	11.2	S	100	3	26.8*	11.5*	S	100	3	33.7*	12.3		29	Y	11.7	N
42-003-3007 501 WADDELL AVE, CLAIRTON	58	4	17.1	9.4	S	54	4	19.2	9.4	S	49	3	30.3*	10.7*		22	N	9.8	N
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42-007-0014 EIGHT STREET AND RIVER ALLEY	363	4	24.8	11.1		358	4	22.6	11.9		364	4	29.8	11.7		26	Y	11.6	Y

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NAAQS Standard: PM25 24-hour 2013 / PM25 Annual 2013
Statistic: Annual Weighted Mean **Level:** 12
Statistic: Annual 98th Percentile **Level:** 35

Design Value Year: 2013

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State Name: Pennsylvania

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	<u>Cred.</u>	<u>Comp.</u>	<u>98th</u>	<u>Wtd.</u>	<u>Cert&</u>	<u>Cred.</u>	<u>Comp.</u>	<u>98th</u>	<u>Wtd.</u>	<u>Cert&</u>	<u>Cred.</u>	<u>Comp.</u>	<u>98th</u>	<u>Wtd.</u>	<u>Cert&</u>	<u>Design</u>	<u>Valid</u>	<u>Design</u>	<u>Valid</u>
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
42-011-0011 1059 Arnold Road	363	4	32.7	10.6		364	4	26.3	11.3		362	4	26.4	11.3		28	Y	11.0	Y
42-013-0801 2ND AVE & 7TH ST	346	4	32.9	12.2		346	4	26.4	11.7		345	4	30.1	11.8		30	Y	11.9	Y
42-017-0012 ROCKVIEW LANE	364	4	31.3	10.3		361	4	28.2	10.7		364	4	29.7	11.5		30	Y	10.8	Y
42-021-0011 MILLER AUTO SHOP 1 MESSENGER ST	345	4	29.6	11.9		342	4	28.0	11.6		332	4	32.5	13.4		30	Y	12.3	Y
42-027-0100 PENN STATE UNIVERSITY - ARBORETUM SITE	363	4	21.1	8.6		361	4	22.5	9.8		355	4	28.5	9.5		24	Y	9.3	Y
42-029-0100 NEW GARDEN AIRPORT - TOUGHKENAMON	351	4	27.2	10.2		330	4	24.1	9.8		293	3	33.8*	13.2		28	Y	11.1	Y
42-041-0101 IMPERIAL COURT	364	4	36.5	10.6		365	4	29.2	10.9		362	4	30.4	11.5		32	Y	11.0	Y
42-043-0401 651 Gibson Blvd., Harrisburg, PA 17104	343	4	35.0	12.0		351	4	28.1	11.6		352	4	31.2	12.1		31	Y	11.9	Y
42-045-0002 FRONT ST & NORRIS ST	336	4	30.5	11.5		288	3	31.1*	12.8		336	4	28.6	12.9		30	N	12.4	Y
42-049-0003 10TH AND MARNE STREETS	348	4	25.6	12.2		346	4	25.3	11.2		346	4	26.7	11.4		26	Y	11.6	Y
42-069-2006 GEORGE ST TROOP AND CITY OF SCRANTON	334	4	24.0	9.2		344	4	19.7	8.3		354	4	23.4	9.3		22	Y	9.0	Y

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	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
42-071-0007 ABRAHAM LINCOLN JR HIGH GROFFTOWN RD	365	4	33.6	11.3		366	4	28.9	12.6		364	4	29.9	12.0		31	Y	12.0	Y
42-075-0100 125 Birch Road	342	4	35.6	11.2		338	4	33.3	14.2		260	3	29.3*	11.4		33	N	12.3	Y
42-085-0100 PA518 (NEW CASTLE ROAD) & PA418	358	4	22.9	9.8		359	4	22.5	10.9		361	4	25.7	10.1		24	Y	10.3	Y
42-089-0002 HC 1, BOX 95-B NEAR RT 611 & BROOKDALE ROAD	342	4	21.7	9.4		348	4	19.3	7.9		331	4	20.3	6.4		20	Y	7.9	Y
42-091-0013 STATE ARMORY - 1046 BELVOIR RD	364	4	27.2	9.3		362	4	21.8	9.7		365	4	27.6	10.3		26	Y	9.8	Y
42-095-0025 WASHINGTON & CAMBRIA STS. FREEMANSBURG	365	4	31.7	10.5		351	4	27.6	11.5		340	4	35.2	14.5		32	Y	12.2	Y
42-095-0027 2604 Schoenersville Road	349	4	33.5	9.9		321	3	26.0*	10.9*		348	4	29.8	11.2		30	Y	10.6	Y
42-101-0004 1501 E. LYCOMING AVE.	54	3	35.1*	9.2		47	3	21.1*	9.7		57	4	23.7	8.9		27	Y	9.3	Y
42-101-0047 500 SOUTH BROAD STREET-PARKING LOT (CHS)	349	4	26.3	9.8		337	4	21.8	10.2		308	4	27.9	11.4		25	Y	10.5	Y
42-101-0048 3000 LEWIS ST. (NEAR BATH ST.) Philadelphia, PA. 19137	73	1	35.3*	10.9*		0	0	*	*		0	0	*	*		35	N	10.9	N
42-101-0055 24TH & RITNER STREETS	323	4	29.8	11.5		325	4	24.8	10.3		335	4	30.6	11.4		28	Y	11.1	Y

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42-101-0057 240 Spring Garden Street	344	4	25.5	10.5		328	4	23.3	10.1		345	4	30.5	11.4		26	Y	10.7	Y
42-101-1002 5200 PENNYPACK PARK PHILADELPHIA, PA. 19136	258	3	23.7*	9.4*		311	4	23.5	10.3		302	4	19.3	8.9		22	N	9.5	N
42-125-0005 CHARLER01 WASTE TREATMENT PLANT	346	4	22.2	10.6		351	4	23.4	10.4		317	3	28.6*	12.0*		25	Y	11.0	Y
42-125-0200 MCCARRELL AND FAYETTE STS	365	4	21.2	9.7		366	4	20.6	10.5		364	4	27.4	10.8		23	Y	10.3	Y
42-125-5001 HILLMAN STATE PARK - KINGS CREEK ROAD	349	4	20.6	8.7		348	4	15.8	6.9		343	4	12.3	5.9		16	Y	7.2	Y
42-125-5200 220 Meddings Road	333	3	17.9*	8.4*		145	1	18.4*	9.0 *		0	0	*	*		18	N	8.7	N
42-129-0008 DONOHOE ROAD - PENN DOT MAINT DIST BLDG	362	4	21.6	9.7		363	4	22.8	10.1		309	3	32.8*	13.7		26	N	11.1	Y
42-133-0008 HILL ST.	365	4	30.6	10.2		365	4	28.4	12.0		349	4	28.0	11.6		29	Y	11.3	Y

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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).

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