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COLORADO
Department of Public Health & Environment

Dedicated to protecting and improving the health and environment of the people of Colorado

Monica S. Morales
Director, Air Program
U.S. Environmental Protection Agency, Region VIII
1595 Wynkoop Street
Mail Code: 8P-AR
Denver, CO 80202-1129

01 May 2019

Dear Ms. Morales,

Per 40 CFR 58.15, this letter is intended to satisfy the monitoring data subject to certification for State and Local Air Monitoring Stations (SLAMS) that meet criteria in 40 CFR 58 Appendix A from January 1, 2018 through December 31, 2018. This letter also serves to certify the 5-minute SO2 data for 2017 to which some minor changes were made after the 2017 data certification was completed.

The ambient concentration data and the quality assurance data are completely submitted to Air Quality System (AQS) by Primary Quality Assurance Organization (PQAO) 0240, Colorado Department of Public Health and Environment (CDPHE), Air Pollution Control Division (APCD), with the exception of PM2.5 speciation data.

Enclosed please find the following documentation:

- AMP600 for 2018 (Certification Evaluation and Concurrence Report for Criteria Pollutants) shows CO, NO2, SO2 (hourly), O3, and FRM/FEM data for both PM10, and PM2.5 to be complete and quality assured as prescribed for the 2018 Annual Data Certification Process
- AMP450NC for 2018 for 5-minute SO2 (42406)
- AMP450NC for 2018 for PM10-2.5 (86101, PM-coarse)
- AMP450NC for 2017 for 5-minute SO2 (42406) so the data can be certified as some minor modifications were made after the 2017 Data Certification process was completed

As the Quality Assurance Officer for the Colorado Air Pollution Control Division's, Technical Services Program, I have reviewed the ambient data and the quality assurance data in the AQS database and find it to be of satisfactory quality. Therefore, I certify that to the best of my knowledge, it presents an accurate

reflection of the 2018 data, taking into consideration the quality assurance findings. If you have any questions, please me at 303-692-3238.

Sincerely,

Gordon E. Pierce
Technical Services Program Manager
Air Pollution Control Division
Colorado Department of Public Health and Environment
303-692-3238
gordon.pierce@state.co.us

cc: Joshua Rickard, EPA-Region VIII (electronically)
Richard Payton, EPA-Region VIII (electronically)
Gregory Harshfield, CDPHE (electronically)
Pat McGraw, CDPHE (electronically)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: CIL

CERTIFICATION EVALUATION AND CONCURRENCE

Report Request ID: 1743684

Report Code: AMP600

May. 1, 2019

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	08										

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
CRITERIA			

AGENCY SELECTIONS

Colorado Department of Public Health And Environment

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
AGENCY ROLE	CERTIFYING

DATE CRITERIA

Start Date	End Date
2018	2018

Data Evaluation and Concurrence Report Summary

May. 1, 2019

Certification Year: 2018
Certifying Agency (CA): Colorado Department of Public Health And Environment (0240)

Pollutants in Report:

Parameter Name	Code	Monitors Evaluated	Monitors Recommended for Concurrence by AQS	Monitors NOT Recommended for Concurrence by AQS
Carbon monoxide	42101	8	8	0
Nitrogen dioxide (NO2)	42602	5	5	0
Ozone	44201	21	21	0
PM10 Total 0-10um STP	81102	30	29	1
PM2.5 - Local Conditions	88101	22	22	0
Sulfur dioxide	42401	4	4	0

PQAOs in Report:

PQAO Name	PQAO Code	TSA Date
Air Resource Specialists, Inc	0009	
Colorado Department of Public Health And Environment	0240	08/03/15

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
0009	44201	08-045-0012	1	Y		Quality Assurance Project Plan not approved in 5 years.
0009	44201	08-077-0020	1	Y		Quality Assurance Project Plan not approved in 5 years.
0009	44201	08-083-0006	1	Y		Quality Assurance Project Plan not approved in 5 years.
0240	81102	08-043-0003	1	N		Annual Summary completeness < 70%.

Signature of Monitoring Organization Representative: Gordon E. Kim

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2018
Certifying Agency Code Colorado Department of Public Health And Environment (0240)
Parameter Carbon monoxide (42101) (ppm)
PQAO Name Colorado Department of Public Health And Environment (0240)
QAPP Approval Date 07/30/2015

NPAP Audit Summary:

Number of Passed Audits	NPAP Bias	Criteria Met
1	.488085	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
08-001-3001	1	SLAMS	0.291	0.062	2.492	0	0	98	2.25	+2.13	85	5.06	100		Y	Y	Y		
08-031-0002	2	SLAMS	0.371	0.055	4.534	0	0	97	3.77	+3.70	88	- 0.87	100		Y	Y	Y		
08-031-0026	1	SLAMS	0.307	0.071	3.821	0	0	98	2.48	+2.97	81	0.88	100		Y	Y	Y		
08-031-0027	1	SLAMS	0.496	0.054	4.030	0	0	96	2.89	+/-2.43	85	- 5.66	100		Y	Y	Y		
08-041-0015	2	SLAMS	0.362	0.050	2.758	0	0	99	1.82	+1.76	77	- 6.85	100		Y	Y	Y		
08-069-1004	1	SLAMS	0.299	0.052	2.645	0	0	98	2.18	+2.84	81	10.52	100		Y	Y	Y		
08-077-0018	1	SLAMS	0.266	0.069	1.218	0	0	96	2.19	+2.03	73	2.43	100		Y	Y	Y		
08-123-0009	1	SLAMS	0.223	0.070	1.460	0	0	99	0.92	+2.89	81	2.00	100	0.49	Y	Y	Y		

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2018
Certifying Agency Code Colorado Department of Public Health And Environment (0240)
Parameter Nitrogen dioxide (NO2) (42602) (ppb)
PQAO Name Colorado Department of Public Health And Environment (0240)
QAPP Approval Date 07/30/2015

NPAP Audit Summary:

Number of Passed Audits	NPAP Bias	Criteria Met
		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
08-001-3001	1	SLAMS	15.7	0.1	77.6		0	93	3.17	+/-4.06	88	- 7.92	100		Y	Y	Y		
08-031-0002	1	SLAMS	18.6	1.6	102.9		0	94	2.06	+3.48	81	- 5.17	100		Y	Y	Y		
08-031-0026	1	SLAMS	18.7	1.3	81.7		0	81	1.83	+/-1.45	69	1.59	100		Y	Y	Y		
08-031-0027	1	SLAMS	23.9	1.8	86.2		0	89	2.53	+2.09	88	- 1.44	100		Y	Y	Y		
08-031-0028	1	SLAMS	27.1	2.3	103.4		0	88	3.91	+/-3.46	85	0.60	100		Y	Y	Y		

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2018
Certifying Agency Code Colorado Department of Public Health And Environment (0240)
Parameter Ozone (44201) (ppm)

PQAO Name Air Resource Specialists, Inc (0009)
QAPP Approval Date

NPAP Audit Summary:

Number of Passed Audits	NPAP Bias	Criteria Met
		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
08-045-0012	1	SLAMS	0.048	0.012	0.091	0	0	96	2.79	+/-2.48	77	- 0.25	100		Y	Y	Y		
08-077-0020	1	SLAMS	0.049	0.020	0.084	0	0	94	2.43	-2.13	77	- 3.23	100		Y	Y	Y		
08-083-0006	1	SLAMS	0.049	0.029	0.076	0	0	87	2.86	+/-2.67	73	- 1.86	100		Y	Y	Y		

PQAO Name Colorado Department of Public Health And Environment (0240)
QAPP Approval Date 07/30/2015

NPAP Audit Summary:

Number of Passed Audits	NPAP Bias	Criteria Met
5	5.43770	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
08-001-3001	2	SLAMS	0.048	0.001	0.081	0	0	95	2.50	+/-2.44	85	0.58	100	7.04	Y	Y	Y		
08-005-0002	1	SLAMS	0.053	0.013	0.108	0	0	96	2.31	+/-1.87	85	2.78	100		Y	Y	Y		
08-005-0006	1	SLAMS	0.053	0.019	0.080	0	0	97	2.72	+/-2.22	81	3.86	100		Y	Y	Y		
08-013-0014	1	SLAMS	0.055	0.023	0.097	0	0	93	2.48	+/-2.24	77	1.36	100	5.87	Y	Y	Y		
08-031-0002	6	SLAMS	0.047	0.007	0.092	0	0	99	2.62	+/-2.27	85	1.29	100	3.09	Y	Y	Y		
08-031-0026	1	SLAMS	0.049	0.003	0.089	0	0	95	3.56	+/-2.85	81	3.60	100		Y	Y	Y		
08-035-0004	1	SLAMS	0.055	0.019	0.103	0	0	96	2.73	+/-2.36	73	2.42	100		Y	Y	Y		
08-041-0013	1	SLAMS	0.053	0.013	0.099	0	0	98	2.43	+/-2.15	73	2.31	100		Y	Y	Y		
08-041-0016	1	SLAMS	0.052	0.012	0.097	0	0	97	2.37	+3.22	73	- 0.59	100		Y	Y	Y		
08-059-0005	1	SLAMS	0.047	0.008	0.082	0	0	71	4.76	+/-3.91	69	0.66	100		Y	Y	Y		
08-059-0006	1	SLAMS	0.056	0.012	0.104	0	0	96	2.08	+/-1.73	77	1.13	100		Y	Y	Y		
08-059-0011	1	SLAMS	0.054	0.011	0.095	0	0	98	2.71	+/-2.50	81	1.94	100		Y	Y	Y		
08-059-0013	1	SLAMS	0.052	0.007	0.092	0	0	97	3.21	+/-2.68	73	0.18	100	5.44	Y	Y	Y		
08-069-0011	1	SLAMS	0.054	0.020	0.102	0	0	99	2.20	+/-2.37	77	- 0.52	100		Y	Y	Y		

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2018
Certifying Agency Code Colorado Department of Public Health And Environment (0240)
Parameter Ozone (44201) (ppm)
PQAO Name Colorado Department of Public Health And Environment (0240)
QAPP Approval Date 07/30/2015

			Routine Data						One Point Quality Check			Annual PE		NPAP			Concur. Flag		
AQS Site ID	POC	Monitor Type	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
08-069-1004	1	SLAMS	0.048	0.010	0.093	0	0	99	1.74	+/-1.38	85	0.61	100		Y	Y	Y		
08-081-0003	1	SPM	0.048	0.027	0.078	0	0	91	1.42	+/-1.16	65	- 1.36	100		Y	Y	Y		
08-085-0005	1	SPM	0.048	0.022	0.090	0	0	90	1.25	+1.71	88	- 0.83	100		Y	Y	Y		
08-123-0009	1	SLAMS	0.050	0.003	0.090	0	0	96	3.23	+/-2.61	81	2.30	100	3.27	Y	Y	Y		

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2018
Certifying Agency Code Colorado Department of Public Health And Environment (0240)
Parameter Sulfur dioxide (42401) (ppb)
PQAO Name Colorado Department of Public Health And Environment (0240)
QAPP Approval Date 07/30/2015

NPAP Audit Summary:

Number of Passed Audits	NPAP Bias	Criteria Met
0	3.38983	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
08-001-3001	2	SLAMS	0.9	- 0.2	6.4		0	95	4.06	+/-3.34	88	- 1.83	100	3.39	Y	Y	Y		
08-031-0002	1	SLAMS	0.7	- 0.2	12.8		0	93	3.09	+/-2.87	85	- 0.93	100		Y	Y	Y		
08-031-0026	1	SLAMS	0.6	- 0.4	13.4		0	94	1.92	-3.29	81	- 1.77	100		Y	Y	Y		
08-041-0015	1	SLAMS	0.9	- 0.5	16.4		0	94	2.78	+/-2.24	77	- 1.74	100		Y	Y	Y		

Data Evaluation and Concurrence Report for Particulate Matter

Certifying Year: 2018
Certifying Agency: Colorado Department of Public Health And Environment (0240)

Parameter: PM10 Total 0-10um STP (81102) CONTINUOUS
PQAO Name: Colorado Department of Public Health And Environment (0240)
Quality Assurance Project Plan Approval Date: 07/30/2015

Monitors Summaries

			Routine Data (ug/m3)						Flow Rate Verification		Flow Rate Audit			Concurrence Flag		
AQS Site ID	POC	Monitor Type	Mean	Min	Max	Exceed. Count	Outlier Count	% Complete	Bias	% Complete	Bias	% Complete	QAPP Appr.	AQS Rec Flag	CA Rec Flag	EPA Concur
08-001-3001	3	SLAMS	30.38	-4.0	399.0		0	82	+/-1.82	100	-0.68	100	Y	Y		

Data Evaluation and Concurrence Report for Particulate Matter

Certifying Year: 2018
Certifying Agency: Colorado Department of Public Health And Environment (0240)

Parameter: PM10 Total 0-10um STP (81102) INTERMITTENT
PQAO Name: Colorado Department of Public Health And Environment (0240)
Quality Assurance Project Plan Approval Date: 07/30/2015

Collocation Summary

# Sites	# Sites Req	# Sites Collocated	% Collocated	CV Est	CV UB	Criteria Met?
24	4	5	100	6.47	6.89	Y

Monitors Summaries

			Routine Data (ug/m3)						Flow Rate Audit		Collocation				Concurrence Flag		
AQS Site ID	POC	Monitor Type	Mean	Min	Max	Exceed. Count	Outlier Count	% Complete	Bias	% Complete	CV	% Complete	PQAO Crit. Met	QAPP Appr.	AQS Rec Flag	CA Rec Flag	EPA Concur
08-001-0008	1	SLAMS	35.91	3.0	158.0	1	0	98	-1.02	100			Y	Y	Y		
08-001-3001	2	SLAMS	32.68	7.0	106.0	0	0	83	-2.21	100			Y	Y	Y		
08-003-0003	1	SLAMS	22.92	4.0	379.0	1	0	98	-0.21	100			Y	Y	Y		
08-007-0001	3	SLAMS	18.23	2.0	88.0	0	0	99	+0.43	100			Y	Y	Y		
08-013-0003	2	SLAMS	19.95	5.0	63.0	0	0	100	-1.23	100	7.05	100	Y	Y	Y		
08-013-0003	3	SPM	20.72	5.0	61.0	0	0	100	+1.13	100			Y	Y	Y		
08-013-0012	1	SLAMS	20.38	6.0	57.0	0	0	100	+0.09	100			Y	Y	Y		
08-029-0004	1	SLAMS	21.75	5.0	51.0	0	0	92	+0.08	100			Y	Y	Y		
08-031-0002	1	SLAMS	29.38	9.0	147.0	0	0	100	-1.16	100	4.78	100	Y	Y	Y		
08-031-0002	2	SLAMS	30.08	9.0	149.0	0	0	100	+0.05	100			Y	Y	Y		
08-031-0026	1	SLAMS	22.61	4.0	102.0	0	0	100	-0.34	100	8.71	100	Y	Y	Y		
08-031-0026	2	SLAMS	22.32	6.0	102.0	0	0	98	-0.40	100			Y	Y	Y		
08-041-0017	1	SLAMS	19.07	6.0	40.0	0	0	96	+0.26	100			Y	Y	Y		
08-045-0005	1	SPM	14.69	2.0	35.0	0	0	99	+1.43	100			Y	Y	Y		
08-045-0023	1	SPM	18.37	4.0	63.0	0	0	99	+1.43	100			Y	Y	Y		
08-051-0004	2	SLAMS	24.39	6.0	63.0	0	0	94	-2.13	100	7.06	100	Y	Y	Y		
08-051-0004	3	SLAMS	24.81	6.0	52.0	0	0	96	-0.34	100			Y	Y	Y		
08-051-0007	1	SLAMS	13.95	5.0	38.0	0	0	84					Y	Y	Y		

Data Evaluation and Concurrence Report for Particulate Matter

Certifying Year: 2018
Certifying Agency: Colorado Department of Public Health And Environment (0240)

Parameter: PM10 Total 0-10um STP (81102) INTERMITTENT
PQAO Name: Colorado Department of Public Health And Environment (0240)
Quality Assurance Project Plan Approval Date: 07/30/2015

Collocation Summary

# Sites	# Sites Req	# Sites Collocated	% Collocated	CV Est	CV UB	Criteria Met?
24	4	5	100	6.47	6.89	Y

Monitors Summaries

			Routine Data (ug/m3)						Flow Rate Audit		Collocation				Concurrence Flag		
AQS Site ID	POC	Monitor Type	Mean	Min	Max	Exceed. Count	Outlier Count	% Complete	Bias	% Complete	CV	% Complete	PQAO Crit. Met	QAPP Appr.	AQS Rec Flag	CA Rec Flag	EPA Concur
08-067-0004	1	SLAMS	20.28	4.0	147.0	0	0	76	+0.84	100			Y	Y	Y		
08-069-0009	1	SLAMS	19.72	2.0	59.0	0	0	100	+0.13	100			Y	Y	Y		
08-077-0017	1	SLAMS	16.43	.0	37.0	0	0	82	+0.21	100	6.06	100	Y	Y	Y		
08-077-0017	2	SLAMS	17.61	.0	45.0	0	0	96	-0.08	100			Y	Y	Y		
08-097-0008	1	SLAMS	15.41	3.0	45.0	0	0	93	+2.19	100			Y	Y	Y		
08-099-0002	2	SLAMS	19.91	2.0	159.0	1	0	98	+0.34	100			Y	Y	Y		
08-101-0015	1	SLAMS	20.71	1.0	155.0	1	0	96	-0.77	100			Y	Y	Y		
08-107-0003	2	SLAMS	18.08	1.0	56.0	0	0	97	+0.58	100			Y	Y	Y		
08-113-0004	1	SLAMS	18.01	3.0	47.0	0	0	94	+0.42	100			Y	Y	Y		
08-123-0006	2	SLAMS	22.83	3.0	54.0	0	0	99	-0.88	100			Y	Y	Y		
08-043-0003	1	SLAMS	15.30	5.0	39.0	0	0	33	+0.04	100			Y	Y	N		

Data Evaluation and Concurrence Report for Particulate Matter

Certifying Year: 2018
Certifying Agency: Colorado Department of Public Health And Environment (0240)

Parameter: PM2.5 - Local Conditions (88101)
PQAO Name: Colorado Department of Public Health And Environment (0240)
Quality Assurance Project Plan Approval Date: 07/30/2015

Collocation Summary

Method	# Sites	# Sites Req	# Sites Collocated	% Collocated	CV Est	CV UB	Criteria Met?
145	7	1	1	100	7.23	8.27	Y
195	7	1	2	100	17.67	19.42	Y
236	2	1	1	100	15.29	17.00	Y

PEP Summary

# Methods	# Audited Methods	# PEP Required	# PEP Submitted	% Complete	Bias	Criteria Met?
3	3	8	8	100	+22.83	Y

Monitors Summaries

AQS Site ID	POC	Method	Monitor Type	Routine Data (ug/m3) Mean	Min	Max	Exceed. Count	Outlier Count	% Complete	Flow Rate Audit Bias	% Complete	Collocation CV	% Complete	PQAO Crit. Met	PEP PQAO Crit. Met	QAPP Appr.	Concurrence Flag AQS Rec Flag	CA Rec Flag	EPA Concur
08-001-0008	2	145	SLAMS	10.06	2.3	33.9		0	98	-1.39	100			Y	Y	Y	Y		
08-001-0008	3	195	SLAMS	10.35	.2	97.5		0	93	-2.21	100	22.10	100	Y	Y	Y	Y		
08-005-0005	1	145	SLAMS	6.30	1.4	28.2		0	100	+0.63	100			Y	Y	Y	Y		
08-013-0003	1	145	SLAMS	6.79	1.0	33.3		0	98	-2.38	100			Y	Y	Y	Y		
08-013-0003	3	236	SPM	9.23	.5	89.3		0	100	+0.31	100			Y	Y	Y	Y		
08-013-0012	1	145	SLAMS	6.37	1.5	30.0		0	100	-2.27	100			Y	Y	Y	Y		
08-031-0002	1	145	SLAMS	7.22	1.6	40.0		0	96	-0.85	100	8.27	100	Y	Y	Y	Y		
08-031-0002	2	145	SLAMS	7.52	1.7	36.3		0	100	-0.15	100			Y	Y	Y	Y		
08-031-0002	3	195	SPM	8.45	.3	93.6		0	99	+1.47	100			Y	Y	Y	Y		
08-031-0026	1	145	SLAMS	7.24	1.7	29.4		0	100	+0.88	100			Y	Y	Y	Y		
08-031-0026	3	195/ 236	SLAMS	7.68	.3	60.7		0	99	-1.21	100			Y	Y	Y	Y		
08-031-0027	1	145	SLAMS	8.86	2.6	31.8		0	100	+0.96	100			Y	Y	Y	Y		
08-031-0027	3	195	SLAMS	8.31	.3	57.9		0	95	+1.51	100	16.25	100	Y	Y	Y	Y		
08-031-0028	3	195	SLAMS	9.18	.0	76.5		0	96	+1.22	100			Y	Y	Y	Y		
08-035-0004	1	145	SPM	5.69	1.1	28.6		0	95	-0.46	100			Y	Y	Y	Y		
08-035-0004	3	236	SPM	7.58	.3	85.5		0	100	+0.32	100	17.00	100	Y	Y	Y	Y		

Data Evaluation and Concurrence Report for Particulate Matter

Certifying Year: 2018
Certifying Agency: Colorado Department of Public Health And Environment (0240)

Parameter: PM2.5 - Local Conditions (88101)
PQAO Name: Colorado Department of Public Health And Environment (0240)
Quality Assurance Project Plan Approval Date: 07/30/2015

Collocation Summary

Method	# Sites	# Sites Req	# Sites Collocated	% Collocated	CV Est	CV UB	Criteria Met?
145	7	1	1	100	7.23	8.27	Y
195	7	1	2	100	17.67	19.42	Y
236	2	1	1	100	15.29	17.00	Y

PEP Summary

# Methods	# Audited Methods	# PEP Required	# PEP Submitted	% Complete	Bias	Criteria Met?
3	3	8	8	100	+22.83	Y

Monitors Summaries

				Routine Data (ug/m3)						Flow Rate Audit		Collocation			PEP		Concurrence Flag		
AQS Site ID	POC	Method	Monitor Type	Mean	Min	Max	Exceed. Count	Outlier Count	% Complete	Bias	% Complete	CV	% Complete	PQAO Crit. Met	PQAO Crit. Met	QAPP Appr.	AQS Rec Flag	CA Rec Flag	EPA Concur
08-041-0017	3	195	SLAMS	6.25	.1	50.7		0	100	-0.24	100			Y	Y	Y	Y		
08-069-0009	3	195	SPM	7.77	.0	65.2		0	98	-1.97	100			Y	Y	Y	Y		
08-077-0017	3	195	SLAMS	5.91	.3	45.8		0	98	-4.98	100			Y	Y	Y	Y		
08-101-0015	1	145	SLAMS	6.15	.8	32.3		0	90	-0.41	100			Y	Y	Y	Y		
08-123-0006	3	195	SLAMS	9.60	.2	63.5		0	100	-4.75	100			Y	Y	Y	Y		
08-123-0008	1	145	SLAMS	7.93	.8	38.2		0	91	+0.03	100			Y	Y	Y	Y		

Data Concurrence and Evaluation Report for Lead

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: CIL

QUICKLOOK ALL PARAMETERS

Report Request ID: 1743786

Report Code: AMP450NC

May. 1, 2019

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	08										

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
ALL	42406		

AGENCY SELECTIONS

Colorado Department of Public Health And Environment

SELECTED OPTIONS

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

DATE CRITERIA

Start Date	End Date
2018	2018

APPLICABLE STANDARDS

Standard Description

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

May. 1, 2019

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

May. 1, 2019

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: 08-001-3001 City: Welby	County: Adams						Address: 3174 E. 78TH AVE.							
42406 SO2 max 5-min avg	Parts per billion	2	0240	2018	100	8362	19.9	13.3	9.6	8.5	1.18	1 HOUR		0
Site ID: 08-031-0002 City: Denver	County: Denver						Address: 2105 BROADWAY							
42406 SO2 max 5-min avg	Parts per billion	1	0240	2018	100	8184	14.0	13.1	12.8	12.3	1.00	1 HOUR		0
Site ID: 08-031-0026 City: Not in a city	County: Denver						Address: 4545 Navajo St.							
42406 SO2 max 5-min avg	Parts per billion	1	0240	2018	600	8200	17.5	15.4	15.0	14.5	.81	1 HOUR		0
Site ID: 08-041-0015 City: Colorado Springs	County: El Paso						Address: 690 W. HIGHWAY 24							
42406 SO2 max 5-min avg	Parts per billion	1	0240	2018	600	8256	81.2	46.1	40.9	29.0	1.58	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

May. 1, 2019

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
42406	100	INSTRUMENTAL	ULTRAVIOLET FLUORESCENCE
42406	600	Instrumental	Ultraviolet Fluorescence API 100 EU

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

May. 1, 2019

PQAOS USED IN THIS REPORT

PQAO	AGENCY DESCRIPTION
0240	Colorado Department of Public Health And Environment

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.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: CIL

QUICKLOOK ALL PARAMETERS

Report Request ID: 1743679

Report Code: AMP450NC

May. 1, 2019

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	08										

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
ALL	86101		

AGENCY SELECTIONS

Colorado Department of Public Health And Environment

SELECTED OPTIONS

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

DATE CRITERIA

Start Date	End Date
2018	2018

APPLICABLE STANDARDS

Standard Description

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

May. 1, 2019

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

May. 1, 2019

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: 08-031-0026 City: Not in a city	County: Denver						Address: 4545 Navajo St.							
86101 PM10-2.5 - Local Conditions	Micrograms/cubic meter (LC)	1	0240	2018	176	121	64.0	49.1	34.6	28.9	12.32	24 HOUR		0

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

May. 1, 2019

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
86101	176	Thermo Scientific Partisol-Plus Model 2025 Se	Paired Gravimetric

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

May. 1, 2019

PQAOS USED IN THIS REPORT

PQAO	AGENCY DESCRIPTION
0240	Colorado Department of Public Health And Environment

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.
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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.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: CIL

QUICKLOOK ALL PARAMETERS

Report Request ID: 1743692

Report Code: AMP450NC

May. 1, 2019

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	08										

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
ALL	42406		

AGENCY SELECTIONS

Colorado Department of Public Health And Environment

SELECTED OPTIONS

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

DATE CRITERIA

Start Date	End Date
2017	2017

APPLICABLE STANDARDS

Standard Description

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

May. 1, 2019

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

May. 1, 2019

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: 08-001-3001 City: Welby	County: Adams						Address: 3174 E. 78TH AVE.							
42406 SO2 max 5-min avg	Parts per billion	2	0240	2017	100	8319	50.8	35.2	30.8	30.6	1.42	1 HOUR		0
Site ID: 08-031-0002 City: Denver	County: Denver						Address: 2105 BROADWAY							
42406 SO2 max 5-min avg	Parts per billion	1	0240	2017	100	8447	46.2	28.2	24.0	24.0	1.23	1 HOUR		0
Site ID: 08-031-0026 City: Not in a city	County: Denver						Address: 4545 Navajo St.							
42406 SO2 max 5-min avg	Parts per billion	1	0240	2017	600	8282	53.7	48.8	44.8	38.5	1.18	1 HOUR		0
Site ID: 08-041-0015 City: Colorado Springs	County: El Paso						Address: 690 W. HIGHWAY 24							
42406 SO2 max 5-min avg	Parts per billion	1	0240	2017	600	8114	144.2	115.0	95.6	77.4	1.98	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

May. 1, 2019

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
42406	100	INSTRUMENTAL	ULTRAVIOLET FLUORESCENCE
42406	600	Instrumental	Ultraviolet Fluorescence API 100 EU

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

May. 1, 2019

PQAOS USED IN THIS REPORT

PQAO	AGENCY DESCRIPTION
0240	Colorado Department of Public Health And Environment

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.
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