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Oklahoma Department of Environmental Quality
Air Quality Division
Fiscal Year 2016
Air Monitoring Network Plan

Oklahoma Department of Environmental Quality
707 N. Robinson
P.O. Box 1677
Oklahoma City, OK 73101-1677

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Introduction

This report is a review of the air monitoring network operated by the Oklahoma Department of Environmental Quality's Air Quality Division (AQD). It is submitted annually to the Environmental Protection Agency for providing the framework of establishing and maintaining an air quality surveillance system. AQD uses data collected by this network for comparison to the National Ambient Air Quality Standards (NAAQS). AQD maintains its ambient air monitoring network in accordance with the quality assurance requirement of 40CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates its sites to meet all requirements of Appendix E.

Table 1 is a list of all existing AQD ambient air monitoring sites that the agency currently operates and maintains as of May 1 2015. Table 2 is a list of proposed changes. "Air Quality System (AQS) Site ID#" in column one is a unique identification number assigned to each monitoring site in the state network. AQS is a national air monitoring database maintained by the EPA.

This network review is available for public comment at http://www.deq.state.ok.us/aqdnew/monitoring/index.htm for 30 days from the date of posting. It contains proposed changes to the Oklahoma air monitoring network for Fiscal Year 2016 (FY16). Please send comments pertaining to this document through postal service mail or through e-mail as listed below.

Kent Stafford
Environmental Programs Manager
Oklahoma Dept. of Environmental Quality
Air Quality Division
Monitoring Section
P.O. Box 1677
OKC, OK 73101

Or email at kent.stafford@deq.ok.gov

Table 1. Air Monitoring Site Information

AQS Site ID #	Address/ Location	Latitude	Longitude	Pollutants Measured	Sampling/ Analysis Method	Station Type	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
40-027-0049	S.E. 19th St./Water Tower, Moore	35.320105	-97.484099	Ozone	U.V. Photo-metric	SLAMS	Continuous	Population Exposure	Urban	Yes	OKC
				PM2.5	Low Volume FEM	SPM	Continuous	AQI	Urban	No	OKC
40-019-0297	Memorial Dr. Healdton	34.24425	-97.46283	Ozone	U.V. Photo-metric	SPM	Continuous	Regional Transport	Regional	No	Not in MSA
40-069-0324	Tishomingo	34.19888	-96.67308	Ozone	U.V. Photo-metric	SPM	Continuous	Regional Transport	Regional	No	Not in MSA
40-031-0651	2111 NW 25th St Lawton	34.63298	-98.42879	Ozone	U.V. Photo-metric	SLAMS	Continuous	Population Exposure	Urban	Yes	Lawton
				PM2.5	Low Volume FEM	SPM	Continuous	AQI	Urban	No	Lawton
40-043-0860	Municipal Airport, Seiling	36.158414	-98.931973	Ozone	U.V. Photo-metric	SLAMS	Continuous	Regional Background	Regional	Yes	Not in MSA
				PM2.5	Low Volume	SPM	Continuous	AQI	Regional	No	Not in MSA
40-033-0680	E South Boundary St & S 3rd St, Walters	34.346981	-98.307621	Ozone	U.V. Photo-metric	SPM	Continuous	Regional Transport	Regional	No	Not in MSA
40-071-0604	306 E Otoe, Ponca City	36.697186	-97.08135	SO2	Pulsed Fluorescence	SLAMS	Continuous	Population Exposure	Neighborhood	Yes	Not in MSA
				PM2.5	Low Volume FEM	SLAMS	Continuous	Population Exposure	Neighborhood	Yes	Not in MSA
40-087-1073	310 E. Burr Oak Rd., Goldsby	35.159649	-97.473794	Ozone	U.V. Photometric	SLAMS	Continuous	Upwind Background	Regional	Yes	OKC
40-101-0161	Port of Muskogee	35.768333	-95.293889	PM10	Sequential Low Volume/ Micro-gravimetric filter weighing	SPM	(1 in 6)	Source Oriented	Middle	Yes	Not in MSA

40-101-0167	Water Treatment Plant, Muskogee	35.793134	-95.302235	SO2	Pulsed Fluorescence	SLAMS	Continuous	Source Oriented	Neighborhood	Yes	Not in MSA
				PM10	Low Volume FEM	SLAMS	Continuous	Source Oriented	Middle	Yes	Not in MSA
40-017-0101	12575 N.W. 10th, Yukon	35.479215	-97.751503	Ozone	U.V. Photometric	SLAMS	Continuous	Population Exposure	Urban	Yes	OKC
				NO2	Chemiluminescence	SPM	Continuous	Max. Precursor	Urban	No	OKC
40-109-0096	12880A N.E. 10th, Choctaw	35.477801	-97.303044	Ozone	U.V. Photometric	SLAMS	Continuous	Population Exposure	Urban	Yes	OKC
40-109-0033	N.E. 10th and Stonewall, OKC	35.477036	-97.494309	Ozone	U.V. Photometric	SLAMS	Continuous	Population Exposure	Urban	Yes	OKC
				NO2	Chemiluminescence	SLAMS	Continuous	Population Exposure	Neighborhood	Yes	OKC
40-109-0035	N.W. 5th and Shartel, OKC	35.47292	-97.52709	PM2.5	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 3)	Population Exposure	Neighborhood	Yes	OKC
				PM10	Sequential FRM/ Micro-gravimetric Filter Weighing	SLAMS	(1 in 6) Co-located	Population Exposure	Neighborhood	Yes	OKC
				PM10-PM2.5	Low volume/ Subtraction method	SLAMS	(1 in 6)	Population Exposure	Neighborhood	Yes	OKC
40-109-0097	Will Rogers Park, Oklahoma City, OK 73112	35.50298	-97.57766	NO2	Chemiluminescence	SLAMS	Continuous	Population Exposure	Urban/Near Road	Yes	OKC
				PM2.5	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 3)	Population Exposure	Urban/Near Road	Yes	OKC
				CO	Gas Filter Correlation	SLAMS	Continuous	Population Exposure	Urban/Near Road	Yes	OKC
40-109-1037	Okla. Christian Univ., OKC	35.614131	-97.475083	SO2	Pulsed Fluorescence	SLAMS	Continuous	General background	Urban	Yes	OKC
				Chemical Speciation	Low Volume/ Multiple by RTP	SPM	(1 in 6)	Population Exposure	Urban	No	OKC
				PM10	Sequential FRM/	SLAMS	(1 in 6)	Population Exposure	Urban	Yes	OKC

					Micro-gravimetric Filter Weighing						
				PM10	Low volume FEM	SLAMS	Continuous	AQI	Urban	Yes	OKC
				PM2.5	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 3)	Population Exposure	Urban	Yes	OKC
				PM2.5	Low Volume FEM	SPM	Continuous	AQI	Urban	No	OKC
				PM10-PM2.5	Low Volume/ Subtraction method	SLAMS	1 in 6	Population Exposure	Urban	NO	OKC
				CO	Gas Filter Correlation	SLAMS	Continuous	Population Exposure	Urban	Yes	OKC
				Ozone	U.V. Photometric	SLAMS	Continuous	Highest Conc.	Urban	Yes	OKC
40-121-0415	104 Airport Rd., McAlester	34.885610	-95.784375	Ozone	U.V. Photometric	SLAMS	Continuous	Regional Transport	Regional	Yes	Not in MSA
				PM2.5	Low-volume FEM	SLAMS Co-located	Continuous	AQI	Regional	Yes	Not in MSA
				PM2.5	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 3)	General Background	Regional	Yes	Not in MSA
40-045-0890	Ellis County WMA, Arnett	36.085509	-99.935376	IMPROVE Visibility	IMPROVE protocol	NA	(1 in 3)	Visibility/ Regional Haze	Regional	No	Not in MSA
40-039-0856	Weatherford	35.56028	-98.68349	PM10	Low Volume FEM	SPM	Continuous	AQI	Regional	No	Not in MSA

40-143-1127	3520 1/2 N. Peoria, Tulsa	36.204902	-95.976537	Ozone	U.V. Photometric	NCore	Continuous	Max. downwind	Urban	Yes	Tulsa
				NO2	Chemiluminescence	NCore	Continuous	Max precursor emissions impact	Urban	Yes	Tulsa
				Trace level NOy	Chemiluminescence	NCore	Continuous	Max precursor emissions impact	Urban	No	Tulsa
				Trace level CO	Gas Filter Correlation	NCore	Continuous	Population Exposure	Urban	Yes	Tulsa
				Trace level SO2	Pulsed Fluorescence	NCore	Continuous	General background	Urban	Yes	Tulsa
				PM2.5	Sequential FRM/ Micro-gravimetric filter weighing	NCore	Daily	Max. Downwind	Urban	Yes	Tulsa
				PM2.5	Low Volume FEM	SPM	Continuous Co-located	AQI	Urban	No	Tulsa
				PM10	Sequential FRM/ Gravimetric filter weighing	NCore	Daily	Population Exposure	Urban	Yes	Tulsa
				PM10-PM2.5	Low volume/ Subtraction method	NCore	Daily	Population Exposure	Urban	NO	Tulsa
				Chemical Speciation	Low Volume Gravimetric/ Micro-gravimetric filter weighing/XRF/	NCore/ Spec. Trends	(1 in 3)	Population Exposure	Urban	No	Tulsa
				Lead	Hi Volume TSP/ Hot Plate Acid Extraction	NCore	(1 in 6) Co-located	Population Exposure	Urban	Yes	Tulsa
40-143-1110	445 S Jamestown Ave, Tulsa	36.154384	-95.93795	PM10	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	Daily	Population exposure	Neighborhood	Yes	Tulsa

40-143-0137	900 S. Osage Dr., Skiatook	36.357438	-95.999247	Ozone	U.V. Photometric	SLAMS	Continuous	Extreme Downwind	Urban	Yes	Tulsa
40-037-0144	City Water Plant, Mannford	36.105481	-96.361196	Ozone	U.V. Photometric	SLAMS	Continuous	Population Exposure	Urban	Yes	Tulsa
40-143-0174	502 E. 144th Pl., Glenpool	35.953708	-96.004975	Ozone	U.V. Photometric	SLAMS	Continuous	Upwind Background	Urban	Yes	Tulsa
				PM2.5	Low volume FEM	SPM	Continuous	Population Exposure	Urban	No	Tulsa
40-143-0178	Lynn Lane, Tulsa	36.133802	-95.764537	Ozone	U.V. Photometric	SLAMS	Continuous	Population Exposure	Urban	Yes	Tulsa
40-143-0175	1710 W. Charles Page Blvd., Tulsa	36.149877	-96.011664	SO2	Pulsed Fluorescence	SLAMS	Continuous	Source Oriented	Neighborhood	Yes	Tulsa
40-143-0179	124 N. Riverside Dr., Tulsa	36.154830	-96.015844	SO2,	Pulsed Fluorescence	SLAMS	Continuous	Source Oriented	Neighborhood	Yes	Tulsa
				H2S	PF with Converter	SPM	Continuous	Source Oriented	Neighborhood	No	Tulsa
40-143-0235	2443 S. Jackson Ave., Tulsa	36.126945	-95.998941	SO2	Pulsed Fluorescence	SLAMS	Continuous	Source Oriented	Middle	Yes	Tulsa
				H2S	PF with Converter	SPM	Continuous	Source Oriented	Middle	No	Tulsa

All AQD sites and monitors conform to 40 CFR, Subchapter C, Part 58 appendix A, Appendix C (see methods in column 6 of table 2), and appendices D & E (see photos located @ http://www.deq.state.ok.us/AQDnew/monitoring/cpdata.htm by clicking on desired location of the site map).

Table 2. AQD Network Proposed Changes

Monitors Recommended to be Relocated

AQS Site ID #	Address/ Location	Latitude	Longitude	Pollutants Measured	Sampling Method/ Analysis Method	Station Type	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
40-085-0300*	Red River Ranch, Burneyville	33.880812	-97.275896	PM2.5	Low Volume FEM	SPM	Continuous	Regional Transport	Regional	No	Not in MSA

***This monitor will be relocated to site 40-019-0297 (see below).**

AQS Site ID #	Address/ Location	Latitude	Longitude	Pollutants Measured	Sampling Method/ Analysis Method	Station Type	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
40-019-0297	Memorial Dr. Healdton	34.244	-97.46274	PM2.5	Low Volume FEM	SLAMS	Continuous	Regional Transport	Regional	No	Not in MSA

Recommended Changes to Operating Schedules*

AQS Site ID #	Address/ Location	Latitude	Longitude	Pollutants Measured	Sampling Method/ Analysis Method	Station Type	*Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
40-143-1127	3520 1/2 N. Peoria, Tulsa	36.204902	-95.976537	PM2.5	Sequential FRM/ Micro-gravimetric filter weighing	NCore	From Daily to: (1 in 3)	Max. Downwind	Urban	Yes	Tulsa
				PM10	Sequential FRM/ Gravimetric filter weighing	NCore	From Daily to: (1 in 3)	Population Exposure	Urban	Yes	Tulsa
				PM10-PM2.5	Low volume/ Subtraction method	NCore	From Daily to: (1 in 3)	Population Exposure	Urban	NO	Tulsa
40-143-1110	445 S Jamestown Ave, Tulsa	36.154384	-95.93795	PM10	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	From Daily to: (1 in 3)	Population exposure	Neighbor-hood	Yes	Tulsa

Monitors Recommended to be Removed

AQS Site ID #	Address/ Location	Latitude	Longitude	Pollutants Measured	Sampling Method/ Analysis Method	Station Type	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
**40-045-0890	Ellis County WMA, Arnett	36.085509	-99.935376	IMPROVE Visibility	IMPROVE protocol	NA	(1 in 3)	Visibility/ Regional Haze	Regional	No	Not in MSA

**As part of the national assessment of IMPROVE Protocol sites, EPA has recommended defunding and discontinuing the Arnett monitor.

Monitors Recommended to be Added

AQS Site ID #	Address/ Location	Latitude	Longitude	Pollutants Measured	Sampling Method/ Analysis Method	Station Type	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
40-037-0146	Sapulpa	YTBD	YTBD	Lead	Hi-Volume	SLAMS	(1 in 6)	Population Exposure	Neighbor-hood	Yes	Tulsa

Note: The changes proposed in this FY2016 ANR document should be considered as supplemental to the changes proposed in the FY2015 ANR.