Section 103 $PM_{2.5}$ Air Monitoring Work Plan

January 17, 2020

Name of Grantee: PUT YOUR AGENCY'S NAME HERE

Project Budget Period: April 1, 2020 - March 31, 2022

Amount of Funding Requested: $XXX,000

Project Objectives and Alignment with EPA Strategic Plan:

The primary objective of this project is to collect quality assured data on ambient air concentrations of fine particulate matter ($PM_{2.5}$) and its precursors. As described in EPA's $PM_{2.5}$ Monitoring Implementation Plan, dated March 1, 2000, the data will be used for: (1) $PM_{2.5}$ National Ambient Air Quality Standards (NAAQS) comparisons, (2) development and tracking of implementation plans, (3) assessments of regional haze, and (4) assistance for health studies and other ambient aerosol research activities. The $PM_{2.5}$ monitoring network design addresses these four program objectives through a combination of siting and instrumentation strategies.

This project supports EPA's Strategic Plan Goal 1 A Cleaner, Healthier Environment (Deliver a cleaner, safer, and healthier environment for all Americans and future generations by carrying out the Agency's core mission) and Objective 1.1 (Improve Air Quality: Work with states to accurately measure air quality and ensure that more Americans are living and working in areas that meet high air quality standards), by implementing a variety of monitoring activities that will assist in achieving and maintaining health based air pollution standards to reduce the direct emission of particulate matter and other criteria air pollution from stationary and mobile sources that are protective of human health. The environmental outcome will be reduced incidences of respiratory illnesses including asthma and lung cancer and improved visibility in scenic parks and wilderness areas.

Activities to Be Conducted:

The $PM_{2.5}$ ambient monitoring network will be operated and maintained in accordance with Title 40 of the Code of Federal Regulations (40 CFR), Parts 50, 53, and 58, and published in the *Federal Register* on June 12, 2007. These regulations describe the frequency of sampling and the timely reporting of ambient data to the Air Quality System (AQS) database. The number and types of monitors, as specified in our EPA-approved ambient monitoring plan, which will be operated and maintained, are as follows:

	Method	**Monitor**	**1:1**	**1:3**	**1:6**
1	2.5 Mass	FRM	--	--	--
2	2.5 Mass	Co-located FRM*	--	--	--
3	2.5 Continuous	FEM	--	--	--
4	2.5 Continuous	Co-located FEM*	--	--	--
5	2.5 Continuous	Non-FEM	--	--	--
6	2.5 Continuous	Co-located Non-FEM	--	--	--
7	Speciation	SASS	--	--	--

8	Speciation	Super-SASS	--	--	--
9	Speciation - Carbon	URG	--	--	--
10	Trace/low	NOx	--	--	--
11	Trace/low	NOy	--	--	--
12	Trace/low	SO_2	--	--	--
13	Trace/low	CO	--	--	--
14	Meteorological		--	--	--

*Do not double count monitors

As a recipient of an EPA $PM_{2.5}$ monitoring grant, PUT YOUR AGENCY'S NAME HERE will:

1. Operate and maintain the $PM_{2.5}$ monitoring network in accordance with all EPA requirements.

2. Review and update the quality assurance project plan and standard operating procedures in accordance with Region 4 policies.

3. Submit $PM_{2.5}$ data and associated quality assurance data to AQS with 90 days from the end of the calendar quarter.

4. Comply with guidance in flagging data if it is believed that the data have been affected by an exceptional event.

5. Meet 75% minimum data recovery requirements for the $PM_{2.5}$ network monitors. Report all monitors that do not meet this requirement providing the reason that monitor did not meet the 75% data recovery and the corrective action(s) taken. The report is due to the Region 4 state/ local monitoring contact within 30 days of the data being entered into the AQS data base.

6. Submit a $PM_{2.5}$ air monitoring network plan as part of the state's annual air monitoring network plan covering all criteria pollutants. This will be done in coordination with the State, if applicable, by July 1, 2020 and by July 1, 2021.

7. Certify calendar year $PM_{2.5}$ FRM data in the State and Local Air Monitoring Station (SLAMS) Annual Report. Submit the annual certification letter and SLAMS Annual Report by May 1, 2020 and by May 1, 2021.

8. Air Quality Index (AQI) Forecasting: As resources permit, the grantee agrees to participate in AQI forecasting for those areas with continuous $PM_{2.5}$ monitoring and report all continuous $PM_{2.5}$ data to AQS and to the $PM_{2.5}$ mapping program.

9. Submit the Annual Performance Report that covers the period of January 1 to December 31, 2020 to the EPA Technical Project Officer by March 31, 2021.

10. Submit the Annual Performance Report that covers the period of January 1 to December 31, 2021, to the EPA Technical Project Officer by March 31, 2022.

11. Demonstrate the quality assurance (QA) competency by:

a) Assuring the competency of environmental measurement data collected and generated under the Section 103 $PM_{2.5}$ grant program, as addressed in the quality assurance project plan and standard operating procedures for the $PM_{2.5}$ monitoring network.

b) Continuing to implement a similar scope of work under this Section 103 $PM_{2.5}$ grant as performed satisfactorily under your previously approved Section 103 $PM_{2.5}$ grants.

Outputs/Milestones:

- Submission of an annual $PM_{2.5}$ air monitoring network plan for EPA approval. This plan is due annually on July 1st as part of the state's annual air monitoring network plan covering all criteria pollutants.
- $PM_{2.5}$ and associated quality assurance data will be submitted into AQS within 90 days after the end of the calendar quarter.

Outcomes:

The anticipated short term outcome for this project is an increase in the knowledge regarding the character and extent of $PM_{2.5}$ in the ambient air. The long term outcome, through the eventual development and implementation of your state's implementation plans, is to comply with NAAQSs as set forth in the Clean Air Act.

Budget: The costs associated with this project are detailed in the grant financial application package.

Name:
Position:
Agency: PUT YOUR AGENCY NAME HERE