

2018 ANNUAL NETWORK PLAN

**DIVISION OF NATURAL RESOURCES
AND ENVIRONMENTAL MANAGEMENT**

AMBIENT AIR QUALITY MONITORING PROGRAM

CITY OF HUNTSVILLE, ALABAMA



HUNTSVILLE
The Star of Alabama

**NATURAL RESOURCES AND ENVIRONMENTAL
MANAGEMENT
Post Office 308
Huntsville, Alabama 35804-0308**

May 2018

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Definitions and Acronyms

AAQM	Ambient Air Quality Monitoring
AAQMP	Ambient Air Quality Monitoring Plan
ARM	Approved Regional Method
AQS	Air Quality System
avg	average
CBSA	Core Based Statistical Area
CFR	<i>Code of Federal Regulations</i>
CO	Carbon Monoxide
CSA	Combined Statistical Area
EPA	Environmental Protection Agency
FEM	Federal Equivalent Method
FRM	Federal Reference Method
DNREM	Division of Natural Resources and Environmental Management
hr	hour
hi-vol	high-volume PM10 sampler
low-vol	low-volume particulate sampler
m ³	cubic meter
min	minute
ml	milliliter
MSA	Metropolitan Statistical Area
NAAQS	National Ambient Air Quality Standards
NCore	National Core multipollutant monitoring stations
O ₃	ozone
PAMS	Photochemical Assessment Monitoring Stations
Pb	lead
PM	particulate matter
PM _{2.5}	particulate matter ≤ 2.5 micrometers diameter
PM ₁₀	particulate matter ≤ 10 micrometer diameter
PM _{10-2.5}	particulate matter ≤ 10 microns but > 2.5 microns
PSD	Prevention of Significant Deterioration
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
SLAMS	State or Local Air Monitoring Station
SO ₂	Sulfur Dioxide
SPM	Special Purpose Monitor
TEOM	Tapered Element Oscillating Microbalance (Rupprecht and Patashnick Co.)
tpy	tons per year
TSP	Total Suspended Particulate
USEPA	United States Environmental Protection Agency
°C	degree Celsius
µg/m ³	micrograms (of pollutant) per cubic meter (of air sampled)
\geq	greater than or equal to
$>$	greater than
\leq	less than or equal to
$<$	less than

Introduction

In October 2006, the United States Environmental Protection Agency (EPA) issued final Federal Regulations (40 CFR Part 58) concerning state and local agency ambient air monitoring networks.

These regulations require states to submit an annual monitoring network review to EPA. This document provides the framework for establishment and maintenance of Alabama's air quality surveillance system, lists changes that occurred during 2017, and changes proposed to take place to the current ambient air monitoring network during 2018/2019.

Public Review and Comment

The annual monitoring network review must be made available for public inspection for thirty (30) days prior to submission to EPA. For 2018, this document was placed on the City of Huntsville's website on 05/22/2018 to begin a 30-day public review period. This document can be accessed at the following link:

<https://www.huntsvilleal.gov/government/media-center/legal-notices/>

Or by contacting:

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Huntsville Alabama Network Overview

The Huntsville Division of Natural Resources and Environment Management operates a network of state and local air monitoring stations (SLAMS). The current network configuration consists of five monitoring stations that measure concentrations of criteria air pollutants, one station within this network is a Special Purpose Monitoring (SPM) site. The type and number of monitoring stations required in Huntsville are determined by the network design criteria set forth in 40 CFR 58.

Regulations codified at 40 CFR Part 58, Appendices A (Quality Assurance Requirements for Monitors used in Evaluations of National Ambient Air Quality Standards, C (Ambient Air Quality Monitoring Methodology), D (Network Design Criteria for Ambient Air Quality Monitoring) and E (Probe and Monitoring Path Siting Criteria for Ambient Air Quality Monitoring) were reviewed to determine if modifications to the existing air monitoring network are required.

Population and CBSA

Minimum monitoring requirements vary for each pollutant and can be based on a combination of factors such as population, the level of monitored pollutants, and Core Based Statistical Area (CBSA) boundaries as defined in the latest US Census information.

The 2017 population estimate for the Metropolitan Statistical Area of Huntsville is 455,448. The CBSA title is Huntsville, Alabama, which includes Madison and Limestone County.

NCore Ambient Air Monitoring Stations

Each State is required to operate one NCore site (multipollutant). Huntsville was not selected for the NCore site.

PAMS (Photochemical Assessment Monitoring Stations)

PAMS monitoring is required in areas classified as serious, severe, or extreme for the 8-hour ozone standard. Huntsville is presently classified as an ozone attainment area. Consequently, PAMS monitoring is not required.

SLAMS (State and Local Air Monitoring Stations)

The minimum ozone monitoring requirements are based on MSA (Metropolitan Statistical Area) populations and 3-year design value concentrations. The Huntsville MSA population is 455,448 based on U.S. Census Bureau 2017 estimates. Huntsville's 3-year design value concentration for 2015-2017 is .064 ppm. MSA's with populations of 50,000 to less than 350,000 having a design value $\geq 85\%$ of the O3 NAAQS are

required to operate one ozone site. MSA's with populations of 350,000 to less than 4,000,000 are required to operate two ozone sites. Huntsville operates two ozone monitoring sites, as required.

There is a two-tier minimum nitrogen dioxide (NO₂) monitoring requirement. Near-road microscale monitoring is required in each CBSA (Core-based statistical area) with a population of 1,000,000 or more. Area-wide high concentration monitoring is required in each CBSA with a population of 1,000,000 or more. The Huntsville CBSA population is 417,593. Huntsville is not required to operate a SLAMS NO₂ monitor.

The minimum monitoring requirements for carbon monoxide (CO) require one monitor be collocated with a near-road NO₂ monitor in each CBSA with a population of 1,000,000 or more. Huntsville is not required to operate a SLAMS CO monitor.

The minimum sulfur dioxide (SO₂) monitoring requirements are based on a Population Weighted Emissions Index (PWEI), which is calculated by multiplying the population of the CBSA and the total SO₂ emissions (using the most recent published version of the National Emissions Inventory (NEI)) within the CBSA area. The resulting product is then divided by one million, representing million persons-tons per year. Areas having a PWEI greater than 1,000,000 are required to operate 3 monitors; areas having a PWEI equal to or greater than 100,000 but less than 1,000,000 are required to operate 2 monitors; areas having a PWEI greater than 5,000 but less than 100,000 are required to operate 1 monitor. The Huntsville PWEI is 153 (based on 2010 decennial census population and 2014 NEI, total SO₂ emissions data for the Huntsville CBSA). Huntsville is not required to operate a SLAMS SO₂ monitor.

Lead monitoring (Pb) is required in areas where Pb levels have been shown or are expected to be of concern due to the proximity of Pb point source emissions. Generally, industrial sources emitting 0.5 ton or more of lead per year and airports emitting 1.0 ton or more per year would be candidates for lead ambient air monitoring. There are no significant point sources of lead emissions in Huntsville. Based on past monitoring and emissions inventory data, a SLAMS lead site is not required.

Huntsville's PM₁₀ concentrations are less than 80 percent of the PM₁₀ NAAQS (National Ambient Air Quality Standards). Based on Huntsville's MSA population being between 250,000-500,000 and low concentrations, Huntsville is required to operate 1 site. Huntsville operates 3 PM₁₀ sites located in south, central, and north Huntsville. These monitors can be operated at very low cost and provide good spatial coverage within the city. Experience has shown that members of the public want ambient air monitoring to be performed in their part of the city, and the PM₁₀ monitoring sites provide a monitoring presence at relatively low cost. Furthermore, the PM₁₀ data provide an indirect indication of PM_{2.5} spatial variability at a tiny fraction of the cost of operating multiple PM_{2.5} sites.

The minimum PM_{2.5} monitoring requirements are based on MSA populations and 3-year design value concentrations. Huntsville's 3-year design value concentration for 2015-2017 is 13.0 µg/m³ for the 24-hour standard and 7.7 µg/m³ for the annual standard.

MSA's with populations of 50,000 to less than 500,000 having a design value $\geq 85\%$ of the PM_{2.5} NAAQS are required to operate one PM_{2.5} site on a 1 in 3 day sampling frequency. Huntsville operates one PM_{2.5} site on a 1 in 3 day schedule although the current design values are $<85\%$ of the NAAQS. Note: Operating frequency increases to daily sampling when the 24-hour design value is within ± 5 percent of the 24-hour PM_{2.5} NAAQS (34, 35, and 36 $\mu\text{g}/\text{m}^3$).

SLAMS sites were also evaluated to determine consistency of spatial scales with stated monitoring objectives. Reference the attached monitoring network description. In addition to the information listed below, the description also indicates site locations, monitoring methodologies, and operational schedules.

Site #	Site Name	Pollutant	Monitoring Objective	Current Spatial Scale based on ADT* for nearest streets	Scale Meets Objective
0002	Pulaski	PM ₁₀	Population	Neighborhood	Yes
0004	South Parkway	PM ₁₀	High Conc.	Middle	Yes
0014	Airport Road	PM ₁₀	Population	Urban	Yes
0014	Airport Road	PM _{2.5}	Population	Urban	Yes
0014	Airport Road	O ₃	Population	Neighborhood	Yes
0022	Capshaw	O ₃	High Conc.	Urban	Yes

Notes:

Site 0002	Monitor 30.5 m from Pulaski Pike	ADT 14,000	Probe Ht. 4.3 m
Site 0004	Monitor 30.5 m from Mem. Pkwy.	ADT 33,000	Probe Ht. 4.3 m
Site 0014	Monitors 91 m from Airport Road	ADT 15,300	Probe Ht of PM monitors – 4.3 m
	Monitors 548 m from Mem. Pkwy.	ADT 66,550**	Probe Ht of continuous monitor(s) 4.5 m
Site 0022	Monitor 30 m from Capshaw Road	ADT 9,200	Probe Ht. 4.0 m

ADT = Average Daily Traffic

*Traffic count data as provided by the Traffic Engineering Department represents 2014, 2016 and 2017 data.

**ADT counts on Memorial Parkway immediately north and south of Airport Road averaged.

SPM (Special Purpose Monitors)

The special purpose PM₁₀ monitor is operated Monday – Friday from 3:00 p.m.-3:00 p.m. This data is used in reporting the daily Air Quality Index to the local print and television media.

Continuous PM_{2.5} monitoring is required in relation to the minimum SLAMS monitoring requirement stated above; i.e., equal to at least one-half (round up) the minimum monitoring requirement. Huntsville is therefore required to operate one continuous PM_{2.5} monitor. This monitor is a non-FRM/FEM/ARM. This data is used to support public reporting and forecasting of the Air Quality Index.

Site #	Site Name	Pollutant	Monitoring Objective	Current Spatial Scale based on ADT* for nearest streets	Scale Meets Objective
0003	Downtown Garage (AQI Reporting Site)	PM ₁₀	Population	Neighborhood	Yes
0014	Airport Road	PM _{2.5}	Population	Urban	Yes

ADT = Average Daily Traffic

*Traffic count data as provided by the Traffic Engineering Department represents 2014, 2016 and 2017 data.

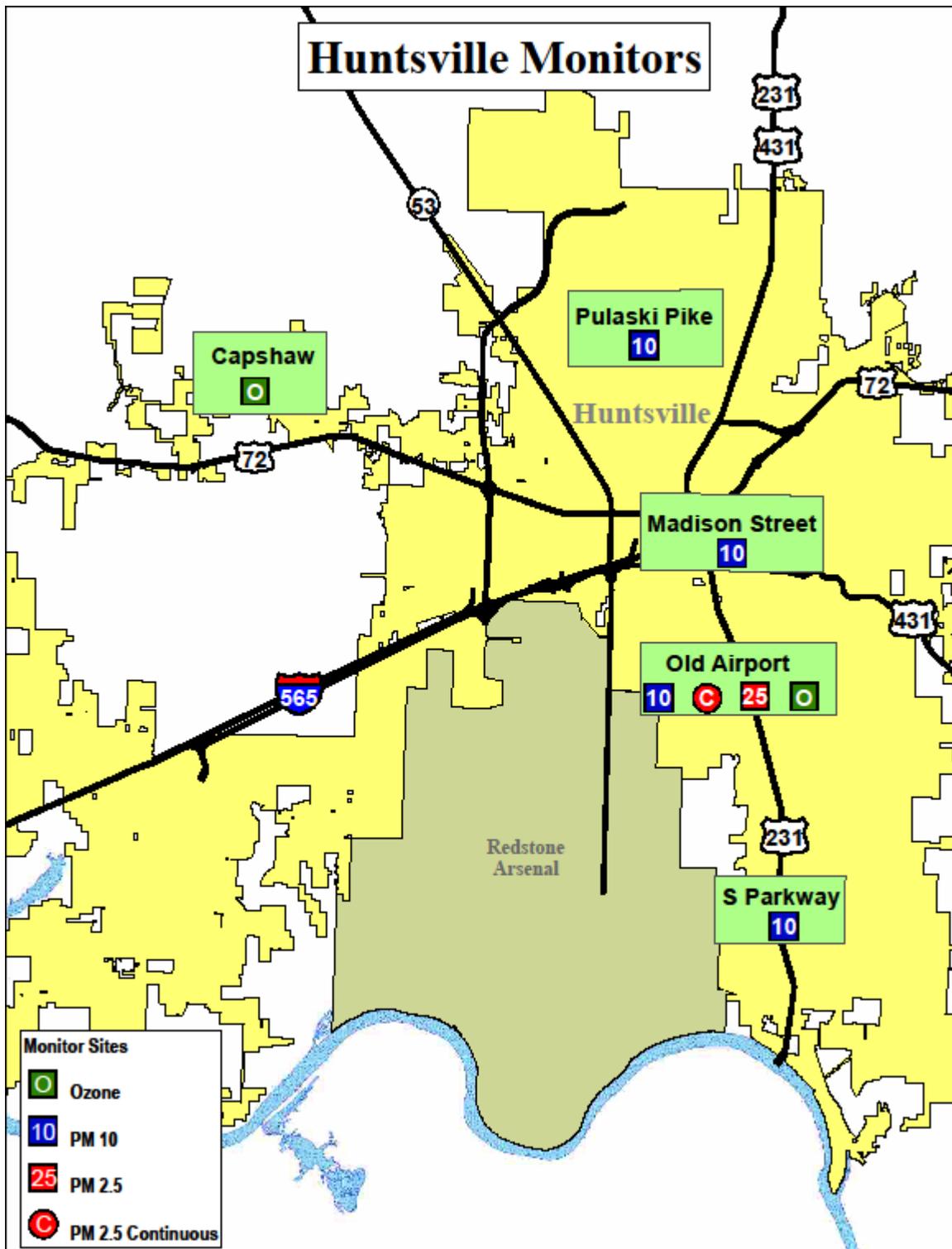
AIR MONITORING NETWORK DESCRIPTION

(As of May 2018)

Site ID	Pollutant(s) Monitored	Methodology	Operating Schedule	Monitoring Objective	Spatial Scale	MSA Represented	Site/Monitor Type	Begin Sampling	End Sampling
01-089-0002 Pulaski Pike	PM10*	SSI Hi – Vol	6 – Day	Population	Neighborhood	Huntsville	SLAMS	01/01/91	Active
01-089-0003 Downtown Garage	PM10	SSI Hi – Vol	Weekday	Population	Neighborhood	Huntsville	SPM Non-Regulatory	04/01/93	Active
01-089-0004 South Parkway	PM10*	SSI Hi – Vol	6 – Day	High Conc.	Middle	Huntsville	SLAMS	06/28/90	Active
01-089-0014 Huntsville Old Airport Road	PM10*	SSI Hi – Vol	6 – Day	Population	Urban	Huntsville	SLAMS	07/01/88	Active
	PM2.5*	SSI Lo – Vol	3 -- Day	Population	Urban	Huntsville	SLAMS	01/01/99	Active
	PM2.5	SSI Lo – Vol	Continuous	Population	Urban	Huntsville	SPM Non-Regulatory	10/09/03	Active
	Ozone*	UV Photometric	Continuous	Population	Neighborhood	Huntsville	SLAMS	01/01/75	Active
01-089-0022 Capshaw	Ozone*	UV Photometric	Continuous	High Conc.	Urban	Huntsville	SLAMS	07/01/11	Active

*Sites used for NAAQS comparison.

Site ID	Location	Geographical Coordinate	Three Closest Roads	Proposed Changes
01-089-0002 Pulaski Pike	5006 Pulaski Pike Huntsville, AL 35810	Latitude +34.788333 Longitude -86.616111	Pulaski Pike Stag Run Winchester Road	None Proposed
01-089-0003 Downtown Garage	Madison St. – Garage Huntsville, AL 35801	Latitude +34.728740 Longitude -86.585010	Madison Street Gates Street Fountain Circle	None Proposed
01-089-0004 South Parkway	11525 S. Memorial Pkwy Huntsville, AL 35803	Latitude +34.620278 Longitude -86.566389	South Memorial Parkway Redstone Road Hobbs Road	None Proposed
01-089-0014 Airport Road	Old Airport – Airport Rd. Huntsville, AL 35802	Latitude +34.687670 Longitude -86.586370	Airport Road Memorial Parkway Leeman Ferry Road	Planned site relocation approximately 1,100 feet SW of current location. Anticipated relocation late 2018 to early 2019.
01-089-0022 Capshaw	1130 Capshaw Road Huntsville, AL 35757	Latitude +34.772727 Longitude -86.756174	Capshaw Road Wall Triana Highway Balch Road	None Proposed



AIR MONITORING EQUIPMENT

EQUIPMENT DESCRIPTION	MODEL	PURCHASED	S/N	COST	CONDITION	ESTIMATED USEFUL LIFE (YRS)	COMMENTS
AAA MODULAR TRAILER	TA-822	1996	41053	6,864.00	GOOD	(22 years old)	TO BE DETERMINED
HVAC WINDOW HEATPUMP UNIT		1996					
ANDERSEN PM10 SAMPLER	1200	1990	3366		FAIR	(28 years old)	NO REPLACEMENT SCHEDULED
ANDERSEN PM10 SAMPLER	1200	1990	3365		FAIR	(28 years old)	NO REPLACEMENT SCHEDULED
ANDERSEN PM10 SAMPLER	1200	1990	3362		FAIR	(28 years old)	NO REPLACEMENT SCHEDULED
ANDERSEN PM10 SAMPLER	1200	1990	3363		FAIR	(28 years old)	NO REPLACEMENT SCHEDULED
ANDERSEN PM10 SAMPLER	1200	1990	1071		FAIR	(28 years old)	NO REPLACEMENT SCHEDULED
ANDERSEN PM10 SAMPLER	1200	1988	2802	2,750.00	FAIR	(30 years old)	NO REPLACEMENT SCHEDULED
ANDERSEN PM10 SAMPLER	1200	1988	2803	2,750.00	FAIR	(30 years old)	NO REPLACEMENT SCHEDULED
TELEDYNE API U.V. PHOTOMETER	T703	2011	90	9,458.50	GOOD	10 (7 years old)	TO BE DETERMINED
TELEDYNE API U.V. PHOTOMETER	T703	2010	53	8,280.80	GOOD	10 (8 years old)	TO BE DETERMINED
TELEDYNE API OZONE MONITOR	T400	2012	304	7363.80	GOOD	10 (5 years old)	TO BE DETERMINED
TELEDYNE API OZONE MONITOR	T400	2010	62	6375.20	GOOD	10 (8 years old)	TO BE DETERMINED
ENVIRONICS CALIBRATOR	6103	2005	3570	9,044.09	FAIR	10 (13 years old)	TO BE DETERMINED
ENVIRONICS CALIBRATOR	6100	2014	6200	8,775.00	GOOD	10 (4 years old)	
AGILAIRE DATA LOGGER	8872	2017	739	8,760.00	GOOD	10 (New Equipment)	TO BE DETERMINED
ESC DATA LOGGER	8832	2010		7,700.00	GOOD	10 (8 years old)	TO BE DETERMINED
ESC DATA LOGGER	8816	2003	4915	5,505.97	FAIR	10 (15 years old)	TO BE DETERMINED
ESC DATA SOFTWARE / AMBIENT, DIGITREND	AirVision	2010	Software	2,940.00	GOOD	5 (8 years old)	TO BE DETERMINED
ESC DATA SOFTWARE / AMBIENT REMOTE	AirVision (2 sites)	2010	Software Agreement	6,125.00	GOOD	5 (8 years old)	TO BE DETERMINED
THERMO R&P PM2.5 CONTINUOUS MONITOR	TEOM	2003	140AB245730304	22,305.00	GOOD	10 (15 years old)	TO BE DETERMINED
THERMO R&P PM2.5 SEQUENTIAL AIR MONITOR	2025i	2016	2025IW2 1074 1606	17,969.00	EXCELLENT	10 (2 year old)	TO BE DETERMINED
THERMO R&P PM2.5 SEQUENTIAL AIR MONITOR	2025	1998	2025A201869803	10,261.30	GOOD	10 (20 years old)	TO BE DETERMINED
THERMO R&P PM2.5 SEQUENTIAL AIR MONITOR	2025	2007	2025B221000712	13,467.14	GOOD	10 (11 years old)	TO BE DETERMINED
R.M.YOUNG MET SYSTEM	6201	2007	WT15773	775.00	GOOD	10 (11 years old)	TO BE DETERMINED
SOLTEC STRIP CHART RECORDER	1241	2007	1676	1795.36	GOOD	10 (11 years old)	TO BE DETERMINED

BACK-UP EQUIPMENT DESCRIPTION	MODEL	PURCHASED	S/N	COST	CONDITION	ESTIMATED USEFUL LIFE (YRS)	COMMENTS
TELEDYNE API OZONE MONITOR	M400E	2002	641	6,226.70	FAIR	10 (16 years old)	REPLACED IN 2012
TELEDYNE API ZERO AIR SYSTEM	701	2006	2107	2,660.00	FAIR	10 (12 years old)	
TELEDYNE API U.V. PHOTOMETER	401X	2006	384	6,840.00	FAIR	10 (12 years old)	
API OZONE MONITOR	400	1995	393	5,886.00	FAIR	10 (23 years old)	REPLACED IN 2002
ENVIRONICS CALIBRATOR	S-100-P	1992	1818	9,350.00	POOR	10 (26 years old)	REPLACED IN 2005
ESC DATA LOGGER W/CARTRIDGE	8800/S109-0000	1994	1382	5,135.00	FAIR	10 (24 years old)	NO REPLACEMENT SCHEDULED
ESC DATA LOGGER	8800/S109-0000	2000	1848	5,180.00	FAIR	10 (18 years old)	REPLACED IN 2003
ESC DATA SOFTWARE / AMBIENT, DIGITREND	VER 5.40	2003		3,400.00	FAIR	5 (15 years old)	Upgraded in 2010
ESC DATA SOFTWARE / AMBIENT REMOTE	VER 5.40 (UPGRADE 3.0)	2003		1,500.00	FAIR	5 (15 years old)	Upgraded in 2010
R&P PM2.5 SEQUENTIAL AIR MONITOR	2025	1998	2025A201849803	10,261.30	POOR	10 (20 years old)	REPLACED IN 2007
API MULTI-GAS CALIBRATOR	700	1997	255	11,368.75	FAIR	10 (21 years old)	REPLACED IN 2011

5/17/2018

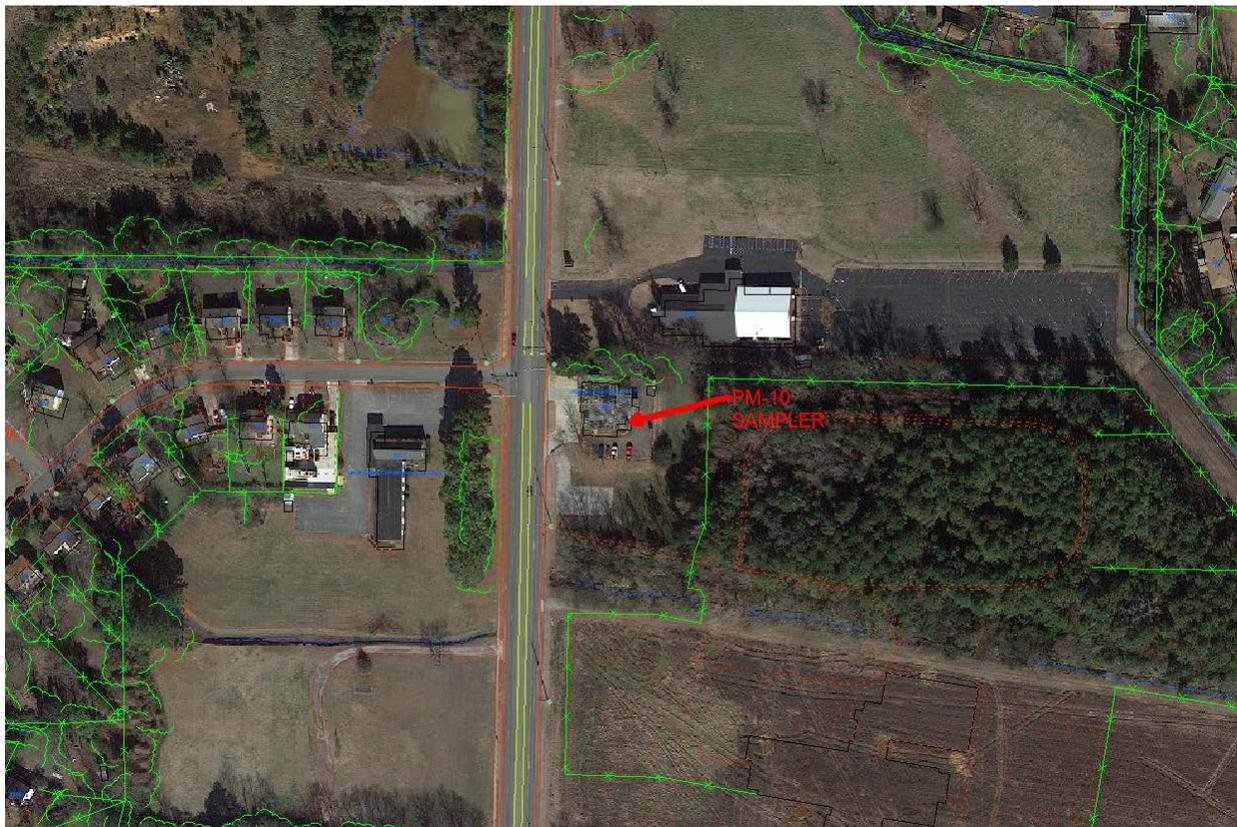
HUNTSVILLE AIR MONITORING NETWORK SITES

The annual monitoring network plan, as stated in 40 CFR Part 58.10(b)(1-13), *Annual Monitoring Network Plan and Periodic Network Assessment*; must contain the following information for each existing and proposed site:

- (1) The AQS site identification number.
- (2) The location, including street address and geographical coordinates.
- (3) The sampling and analysis method(s) for each measured parameter.
- (4) The operating schedules for each monitor.
- (5) Any proposals to remove or move a monitoring station within a period of 18 months following plan submittal.
- (6) The monitoring objective and spatial scale of representativeness for each monitor as defined in appendix D to this part.
- (7) The identification of any sites that are suitable and sites that are not suitable for comparison against the annual PM_{2.5} NAAQS as described in §58.30.
- (8) The MSA, CBSA, CSA or other area represented by the monitor.
- (9) The designation of any Pb monitors as either source-oriented or non-source-oriented according to Appendix D to 40 CFR part 58.
- (10) Any source-oriented monitors for which a waiver has been requested or granted by the EPA Regional Administrator as allowed for under paragraph 4.5(a)(ii) of Appendix D to 40 CFR Part 58.
- (11) Any source-oriented or non-source-oriented site for which a waiver has been requested or granted by the EPA Regional Administrator for the use of Pb-PM₁₀ monitoring in lieu of Pb-TSP monitoring as allowed for under paragraph 2.10 of Appendix C to 40 CFR part 58.
- (12) The identification of required NO₂ monitors as near-road, area-wide, or vulnerable and susceptible population monitors in accordance with Appendix D, section 4.3 of this part.
- (13) The identification of any PM_{2.5} FEMs and/or ARMs used in the monitoring agency's network where the data are not of sufficient quality such that data are not to be compared to the NAAQS. For required SLAMS where the agency identifies that the PM_{2.5} Class III FEM or ARM does not produce data of sufficient quality for comparison to the NAAQS, the monitoring agency must ensure that an operating FRM or filter-based FEM meeting the sample frequency requirements described in §58.12 or other Class III PM_{2.5} FEM or ARM with data of sufficient quality is operating and reporting data to meet the network design criteria described in Appendix D to this part.

Fire Station #10 Site
 5006 Pulaski Pike
 Huntsville, Alabama 35810
 Madison County

AQS Site ID: 01-089-0002
 Latitude: 34.788333
 Longitude: -86.616111



AERIAL PHOTOGRAPH 1/4 mile radius

Pollutant	Scale	Type	Monitoring Objective/CBSA	Method	Schedule	NAAQS	Date Began	Date Ended	Comment
PM-10	N	S	Population	H	6	Y	1/1/1991	Active	



NORTH



SOUTH



EAST



WEST

Pollutant	Distance between collocated inlets	Height Of inlet	Distance of probe or inlet from trees	Distance of probe or inlet from dripline of trees	Distance of probe or monitor from roadway (nearest pavement)	Type of ground cover around site	Probe material
PM-10	N/A	4.3m	24.4m	18.3m	30.5m	Asphalt Grass	N/A

Fire Station #7 Site
 11545 S. Memorial Parkway
 Huntsville, Alabama 35803
 Madison County

AQS Site ID: 01-089-0004
 Latitude: 34.620278
 Longitude: -86.566389



AERIAL PHOTOGRAPH ¼ mile radius

Pollutant	Scale	Type	Monitoring Objective/CBSA	Method	Schedule	NAAQS	Date Began	Date Ended	Comment
PM-10	M	S	High Concentration	H	6	Y	6/28/1990	Active	



NORTH



SOUTH



EAST

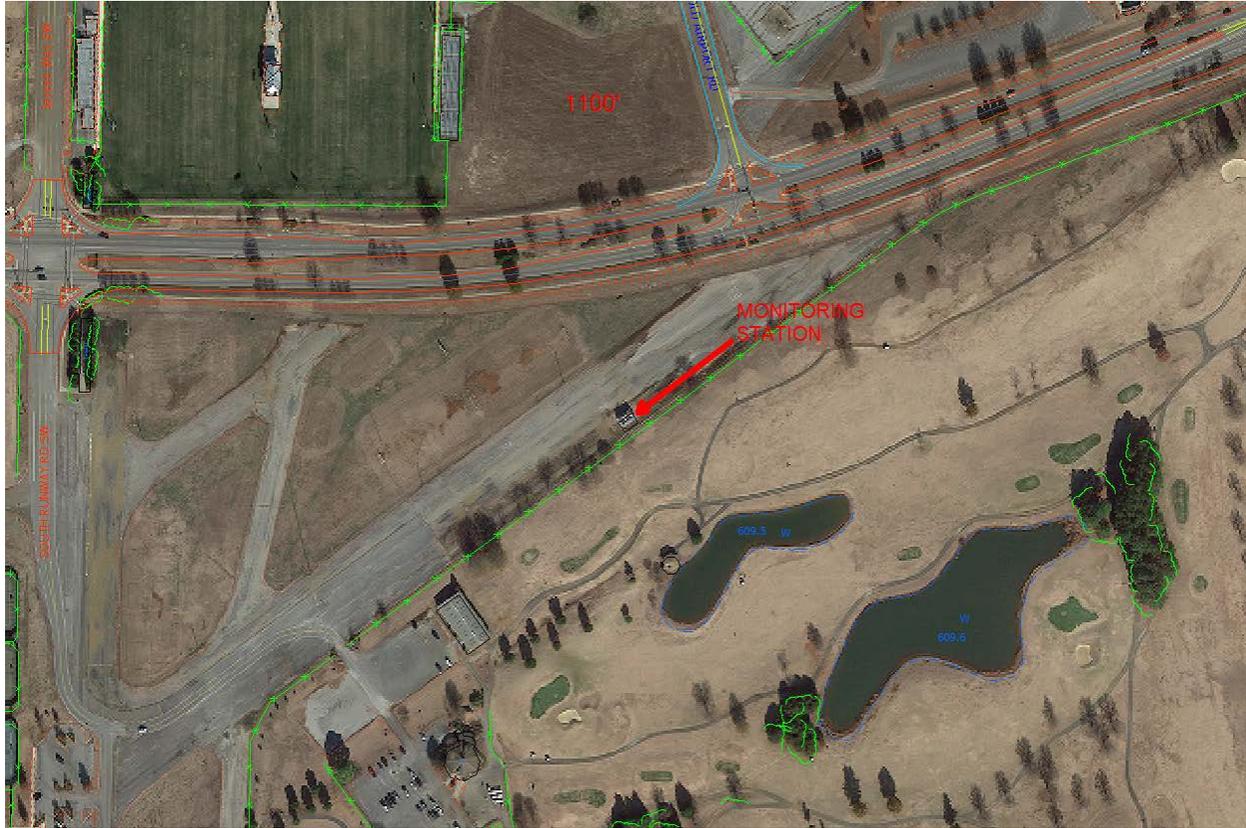


WEST

Monitor	Distance between collocated inlets	Height of inlet	Distance of probe or inlet from trees	Distance of probe or inlet from dripline of trees	Distance of probe or monitor From roadway (nearest pavement)	Type of ground Cover Around site	Probe material
PM-10	N/A	4.3m	83.8m	77.7m	30.5m	Asphalt Grass	N/A

Old Airport Site
 2201 John Hunt Park
 Huntsville, Alabama 35805
 Madison County

AQS Site ID: 01-089-0014
 Latitude: 34.68767
 Longitude: -86.58637



AERIAL PHOTOGRAPH ¼ mile radius

Pollutant	Scale	Type	Monitoring Objective/CBSA	Method	Schedule	NAAQS	Date Began	Date Ended	Comment
PM-10	U	S	Population	H	3	Y	7/01/1988	Active	
PM-10	U	S	Population	H	6	Y	7/01/1988	Active	Collocated
PM 2.5	U	S	Population	L	3	Y	1/01/1999	Active	
PM 2.5	U	S	Population	L	6	Y	1/01/1999	Active	Collocated
PM 2.5	U	S	Population	L		N	10/9/2003	Active	Continuous
Ozone	U	S	Population	UV		Y	1/01/1975	Active	Continuous



NORTH



SOUTH



EAST

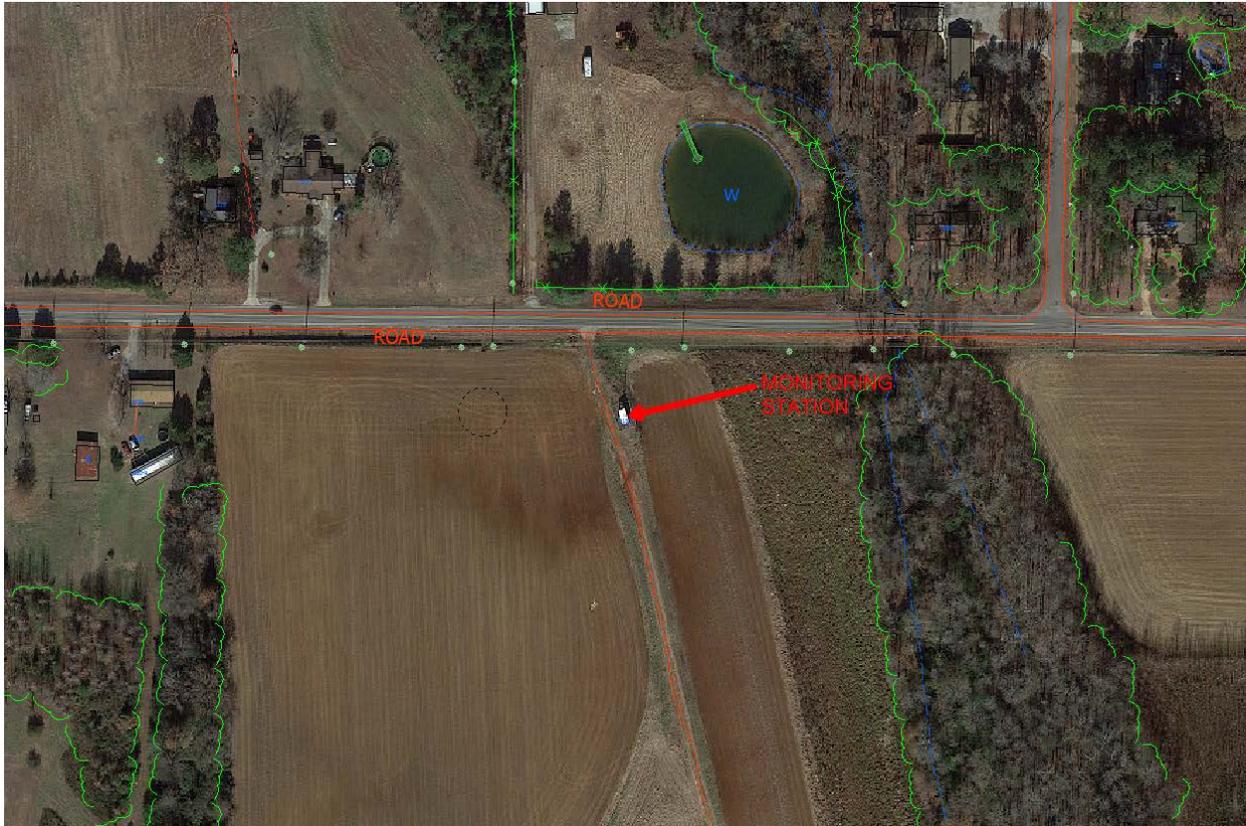


WEST

Monitor	Distance between collocated inlets	Height of inlet	Distance of probe or inlet from trees	Distance of probe or inlet from dripline of trees	Distance of probe or monitor From roadway (nearest pavement)	Type of ground Cover Around site	Probe material
PM-10		4.3m	30.5m	24.4m	91m	Grass, Asphalt	N/A
PM-10	2m	4.3m	30.5m	24.4m	91m	Grass, Asphalt	N/A
R&P 2.5		4.3m	30.5m	24.4m	91m	Grass, Asphalt	N/A
R&P 2.5	2m	4.3m	30.5m	24.4m	91m	Grass, Asphalt	N/A
TEOM		4.5m	30.5m	24.4m	91m	Grass, Asphalt	Teflon
T400		4.5m	30.5m	24.4m	91m	Grass, Asphalt	Teflon

Capshaw Road Site
 1130 Capshaw Road
 Huntsville, Alabama 35757
 Madison County

AQS Site ID: 01-089-0022
 Latitude: 34.772727
 Longitude: -86.756174



AERIAL PHOTOGRAPH ¼ mile radius

Pollutant	Scale	Type	Monitoring Objective/CBSA	Method	Schedule	NAAQS	Date Began	Date Ended	Comment
Ozone	U	S	Population Exposure	UV		Y	7/1/2011	Active	Continuous



NORTH



SOUTH



EAST



WEST

Monitor	Distance Between Collocated inlets	Height of inlet	Distance of probe or inlet from trees	Distance of probe or inlet from dripline of trees	Distance of probe or monitor From roadway (nearest pavement)	Type of ground Cover Around site	Probe Material
T400	N/A	4.0m	48.8m	45.7m	30m	Grass, Ag Field	Teflon

Abbreviations Used in Site Description Tables

Scale

- N Neighborhood (0.5 – 4 Kilometers)
- U Urban (overall citywide conditions, 4 -50 kilometers)
- R Regional (usually rural, with homogenous geography, tens to hundreds of kilometers)
- M Middle Scale

Type

- S SLAMS
- QA QA Collocated Monitor
- SPM Special Purpose Monitor

Operating Schedule

- C Continuous monitor
- D Daily 24-hour samples
- 3 1 24-hour sample every 3 days (on national schedule)
- 6 1 24-hour sample every 6 days (on national schedule)

Methods

- H Hi-volume SSI sampler
- L Low Volume SSI
- T TEOM continuous monitor
- U UV photometric ozone analyzer
- S Hi-Volume Total Suspended Particulate monitor

NAAQS₁

Y,N Data suitable for comparison to NAAQS

₁ Collocated monitors must be operated in the same manner as the federal reference method but one monitor at the site is designated as the main monitor for comparison to the NAAQS

Network Review Findings

The existing network as summarized in the attached Air Monitoring Network Description complies with 40 CFR Part 58 and Appendices A, C, D and E requirements.

Redesign of John Hunt Park's Master Plan has necessitated relocation of Site 0014. DNREM in coordination with the Planning, Parks and Recreation and Projects Management Departments have identified and approved a suitable permanent location for Site 0014 within John Hunt Park. The new location is 1100 feet southwest of the present location. The site would continue to meet all 40 CFR Part 58 requirements. The monitoring objective and spatial scale would not change. DNREM apprised EPA and received concurrence regarding planned relocation of the site.