



Missouri Department of Natural Resources  
Air Pollution Control Program  
2014 Monitoring Network Plan

May 23, 2014

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## SUMMARY OF PROPOSED CHANGES

Missouri's Monitoring Network Plan addresses the following proposed changes:

- One additional new near-roadway nitrogen dioxide (NO<sub>2</sub>) and meteorological monitoring site in St. Louis,
- Addition of nitrogen dioxide (NO<sub>2</sub>) monitoring at the Mark Twain State Park site,
- Discontinuation request for the Oakville PM<sub>10</sub> monitor,
- Discontinuation request for the Park Hills lead monitor, and
- Discontinuation of the PM<sub>10</sub> lead sampler (but not of the TSP lead sampler) at Forest City.

In addition, one or more PM<sub>2.5</sub> speciation samplers may need to be discontinued as a result of a national speciation network evaluation, currently underway and possible consequent changes in funding. This issue will be addressed in future communication with US EPA and any changes will be documented in the next Monitoring Network Plan.

As part of the condition of receiving one-time section 103 Grant funds to implement the NO<sub>2</sub> near-roadway monitoring network, the department will continue to conduct special purpose PM<sub>2.5</sub>, PM<sub>10LC</sub>, PM<sub>10-2.5</sub>, PM<sub>2.5</sub> black carbon, meteorological, and carbon monoxide (CO) monitoring at the Forest Park and Blue Ridge I-70 near-roadway NO<sub>2</sub> sites and will conduct NO<sub>2</sub> and meteorological monitoring at an additional new near-roadway site in the St. Louis area.

### How to Make Public Comments Concerning this Plan

Comments concerning this Monitoring Network Plan may be sent electronically to: [cleanair@dnr.mo.gov](mailto:cleanair@dnr.mo.gov) or in writing to the following address and must be received by close of business June 24, 2014:

Missouri Department of Natural Resources  
Air Pollution Control Program  
Air Quality Analysis Section/Air Monitoring Unit  
P.O. Box 176  
Jefferson City, MO 65102

## INTRODUCTION

The Missouri Department of Natural Resources operates an extensive network of ambient air monitors to comply with the Clean Air Act and its amendments. The Ambient Air Quality Monitoring Network for the State of Missouri consists of State and Local Air Monitoring Stations (SLAMS), Special Purpose Monitoring Stations (SPMS), and National Core (NCore) monitoring consistent with requirements in federal regulation 40 CFR 58.10.

40 CFR 58.10 requires states submit to EPA an annual monitoring network plan including any proposed network changes. With regard to state and local air monitoring station changes, approval by the Environmental Protection Agency Regional Administrator is required.

The plan must contain the following information for each monitoring station in the network:

1. The Air Quality System site identification number for existing stations.
2. The location, including the street address and geographical coordinates, for each monitoring station.
3. The sampling and analysis method used for each measured parameter.
4. The operating schedule for each monitor.
5. Any proposal to remove or move a monitoring station within a period of eighteen months following the plan submittal.
6. The monitoring objective and spatial scale of representativeness for each monitor.
7. The identification of any sites that are or are not suitable for comparison against the annual PM<sub>2.5</sub> National Ambient Air Quality Standard (NAAQS).
8. The metropolitan statistical area, core-based statistical area, combined statistical area or other area represented by the monitor.

### Network Design

Federal regulation (40 CFR Part 58) establishes the design criteria for the ambient air monitoring network. The network is designed to meet three general objectives:

- Provide air pollution data to the public in a timely manner.
- Support compliance with ambient air quality standards and emissions strategy development.
- Support air pollution research studies.

Specific objectives for the monitoring sites are to determine the highest pollution concentrations in an area, to measure typical concentrations in areas of high population density, to determine the impact of significant sources or source categories, to determine general background levels and to determine the extent of regional pollutant transport among populated areas. Minimum site requirements are provided for ozone and particulate matter based on Core Based Statistical Area (CBSA) population.

Appendix E to Part 58 establishes the specific requirements for monitor/probe siting to ensure the ambient data represents the stated objectives and spatial scale. The requirements are

pollutant/scale specific and involve horizontal/vertical placement. Additional details concerning the sites may be found in Appendix 1.

There is only one PM<sub>2.5</sub> monitor in Missouri that is not applicable for comparison to the annual NAAQS. The Branch Street site is a middle-scale site focused on a group of sources in the industrial riverfront area and is not representative of neighborhood or larger spatial scale for PM<sub>2.5</sub> monitoring. The PM<sub>2.5</sub> monitors being deployed collocated with the near-roadway NO<sub>2</sub> monitors will be micro-scale monitors, but EPA has indicated in 40 CFR 58 Appendix D, 4.7.1(c)(2) that "...In many situations, monitoring sites that are representative of microscale or middle-scale impacts are not unique and are representative of many similar situations. This can occur along traffic corridors or other locations in a residential district. In this case, one location is representative of a number of small scale sites and is appropriate for evaluation of long-term or chronic effects." these monitors may be considered by EPA to be representative of larger areas near roadways and comparable to the annual PM<sub>2.5</sub> NAAQS consistent with 40 CFR 58.30.

#### Unanticipated Network Modifications

Changes to the monitoring network may occur outside the annual monitoring network planning process due to unforeseen circumstances resulting from severe weather, natural events, changes in property ownership, or other situations that occur after the monitoring plan has been posted for public inspection and approved by the EPA Regional Administrator. Any changes to the network that result due to conditions outside the state's logistical control and not included in the current monitoring network plan will be communicated in writing to EPA Region VII staff and identified in the subsequent annual monitoring network plan.



<b>Legend</b>		<b>Springfield Area</b>		<b>Outstate Area Cont'</b>	
<b>St. Louis Area</b>					
<b>Site# Site Name</b>	<b>Parameter Monitored</b>	<b>Site# Site Name</b>	<b>Parameter Monitored</b>	<b>Site# Site Name</b>	<b>Parameter Monitored</b>
01 Margareta	PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> , NO <sub>x</sub> , NO, IT	22 Fellows Lake	O <sub>3</sub> , IT	46 New Bloomfield	O <sub>3</sub> , IT
02 Blair Street	PM <sub>10</sub> , PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PM <sub>2.5</sub> (Spec), PMCoarse, O <sub>3</sub> , SO <sub>2</sub> , Pb, NO <sub>2</sub> , NO <sub>y</sub> , NO <sub>x</sub> , NO, CO, Carbonyls, PAHs, VOCs, Air Toxics, Carbons, PM <sub>10</sub> Metals, WS, WD, OT, IT, SR, BP, RH	23 Hillcrest High School	O <sub>3</sub> , IT	47 Finger Lakes	O <sub>3</sub> , IT
03 Branch Street	PM <sub>10</sub> , PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse, WS, WD, OT, IT, BP, RH	24 Missouri State University	PM <sub>10</sub> , PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse, OT, IT, BP, RH	48 Mark Twain State Park	PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> , NO <sub>x</sub> , NO, O <sub>3</sub> , WS, WD, IT
04 Forest Park	PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse, NO <sub>2</sub> , NO <sub>x</sub> , NO, CO, BC, WS, WD, OT, IT, BP, RH, Prec	25 South Charleston	SO <sub>2</sub> , IT	49 St. Joseph Pump Station	PM <sub>10</sub> , PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse, BP, RH
05 South Broadway	PM <sub>10</sub> , PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse, IT, BP, RH	<b>Herculeum Area</b>		50 Savannah	O <sub>3</sub> , WS, WD, IT
06 Orchard Farm	O <sub>3</sub> , IT	<b>Site# Site Name</b>	<b>Parameter Monitored</b>	51 Forest City, Exide	Pb
07 West Alton	O <sub>3</sub> , WS, WD, OT, IT, SR	26 Pevely North	Pb	<b>Acronym</b>	
08 Rider Trail, 1-70 (New)	NO <sub>2</sub> , NO <sub>x</sub> , NO, WS, WD, OT, IT, SR, Prec	27 Pevely	Pb	PM <sub>10</sub>	Particulate Matter (Diameter size ≤ 10 micrometer)
09 Maryland Heights	O <sub>3</sub> , IT	28 Sherman	Pb	PM <sub>10-LC</sub>	PM <sub>10</sub> Local Condition
10 Ladue	PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse, WS, WD, OT, IT, BP, RH	29 Dunklin High School	Pb	PM <sub>2.5</sub>	Particulate Matter (Diameter size between 2.5 and 10 micrometer)
11 Pacific	O <sub>3</sub> , WS, WD, OT, IT	30 Mott Street	SO <sub>2</sub> , Pb, WS, WD, IT	PMCoarse	Particulate Matter (Diameter size between 2.5 and 10 micrometer)
12 Arnold West	PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PM <sub>2.5</sub> (Spec), PMCoarse, O <sub>3</sub> , WS, WD, OT, IT, BP, RH	31 Ursuline North	Pb	Spec	Speciation
13 Foley	O <sub>3</sub> , WS, WD, IT	<b>Old Lead Belt Area</b>		SO <sub>2</sub>	Sulfur Dioxide
<b>Kansas City Area</b>		<b>Site# Site Name</b>	<b>Parameter Monitor</b>	NO <sub>2</sub>	Nitrogen Dioxide
14 Trimble	O <sub>3</sub> , IT	32 St. Joe State Park	Pb	NO	Nitric Oxide
15 Watkins Mill	O <sub>3</sub> , IT	<b>New Lead Belt Area</b>		NO <sub>y</sub>	Reactive Oxides of Nitrogen
16 Liberty	PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse, O <sub>3</sub> , WS, WD, OT, IT, SR, BP, RH	<b>Site# Site Name</b>	<b>Parameter Monitored</b>	NO <sub>x</sub>	Oxides of Nitrogen
17 Rocky Creek	O <sub>3</sub> , IT	33 Glover	Pb	CO	Carbon Monoxide
18 Troost	PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>2</sub> , NO <sub>x</sub> , OT, IT	34 Buick NE	Pb, SO <sub>2</sub> , WS, WD, IT	Pb	Lead (High Volume)
19 Front Street	PM <sub>10</sub>	35 Oates	Pb	BC	Black Carbon
20 Richards Gebaur-South	PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse, O <sub>3</sub> , WS, WD, OT, IT, BP, RH	36 Bill's Creek	Pb	Prec	Precipitation
21 Blue Ridge, I-70	PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse, NO <sub>2</sub> , NO <sub>x</sub> , NO, CO, BC, WS, WD, OT, IT, SR, BP, RH, Prec	37 Fletcher	Pb	WS	Resultant Wind Speed
		<b>Outstate Area</b>		WD	Resultant Wind Direction
		<b>Site# Site Name</b>	<b>Parameter Monitored</b>	OT	Outside Temperature
		38 Alba	O <sub>3</sub> , IT	IT	Indoor Temperature
		39 Carthage	PM <sub>10</sub> , WS, WD, IT	SR	Solar Radiation
		40 El Dorado Springs	PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse, O <sub>3</sub> , WS, WD, OT, IT, BP, RH	BP	Barometer Pressure
		41 Branson	IMPROVE (Protocol)	RH	Relative Humidity
		42 Hercules Glades	O <sub>3</sub> , WS, WD, IT	IMPROVE	Interagency Monitoring of Protected Visual Environment (Regional Haze)
		43 Mingo	PM <sub>2.5</sub> (Spec) - IMPROVE		
		44 Farrar	PM <sub>2.5</sub> (Spec) - IMPROVE		
		43 Mingo	O <sub>3</sub> , IT		
			IMPROVE		

Notes:

- The acronym PM<sub>10-LC</sub> is also commonly referred to as PM<sub>10c</sub> when collected with a low volume sampler consistent with appendix O to Part 50. PM<sub>10-LC</sub> means particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers where the concentration is reported at local conditions of ambient temperature and barometric pressure. PM<sub>10-LC</sub> is used in this document to describe any continuous or filter based PM<sub>10</sub> low volume measurement concentration that is reported at local conditions of ambient temperature and barometric pressure.
- PM<sub>10</sub> means particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers where the concentration is adjusted to EPA reference conditions of ambient temperature and barometric pressure (25 °C and 760 millimeters of mercury or STP).
- PMcoarse is also frequently referred to as PM<sub>10-2.5</sub>.

## PROPOSED CHANGES TO THE NETWORK

### 1. Lead Monitoring Network

Changes to airborne lead monitoring requirements were published in the Federal Register: December 27, 2010 (Volume 75, Number 247). The new rules require a plan for monitoring lead sources emitting 0.50 tons per year or more, revised from the previous requirement for monitoring sources emitting one ton per year or more. Airports are specifically exempted from these requirements except for a special study being conducted at specific airports, none of which are in Missouri.

Department staff reviewed the 2011 National Emissions Inventory and did not identify any additional lead sources emitting greater than 0.50 tons of lead per year for which ambient air monitoring is not currently being conducted or where EPA has not already granted a modeling waiver consistent with 40 CFR 58 Appendix D, 4.5 (a) (ii). Department staff will review the 2012 NEI lead data and evaluate any new sources as part of the comprehensive 2015 Monitoring Network Assessment before making any additional monitoring network changes.

#### 1.1 Forest City, Exide monitoring site

The 2013 Monitoring Network Plan identified the resumption of lead TSP monitoring at a location near the Exide Secondary Lead Smelter in Forest City, MO. The monitoring method initially deployed, as described in the 2012 Monitoring Network Plan, utilized the low volume PM<sub>10c</sub> sampler and Pb-PM<sub>10</sub> analysis performed by X-ray Fluorescence (XRF) following specifications and procedures in 40 CFR part 50 Appendix Q. Since the deployment of the Pb-PM<sub>10</sub> FRM, as a Special Purpose Monitor, in March of 2012, three month rolling averages of airborne lead were monitored at concentrations greater than 0.15 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). As a result a Pb-TSP sampler was deployed in August 2012 for subsequent attainment determination. The department discontinued the Pb-PM<sub>10</sub> FRM in December 2013 but the Pb-TSP sampler will continue to monitor lead at the site.

#### 1.2 Park Hills Monitoring Site

The department proposes to discontinue the Special Purpose lead monitoring site at Park Hills. That site was intended to monitor airborne lead concentrations during remediation activities involving old lead mining waste. The remediation activity has been completed. The three-month rolling average has not been exceeded the lead standard, 0.15  $\mu\text{g}/\text{m}^3$  since the site began monitoring lead on July 1, 2010. The highest three-month rolling average airborne lead concentration at that site was 0.132  $\mu\text{g}/\text{m}^3$  in February-April and April-June 2011. Since that time the lead concentration at that site has not exceeded 0.052  $\mu\text{g}/\text{m}^3$ .

#### 1.3 Doe Run Operated Sites

##### 1.3.1 Doe Run Lead Sites

Doe Run operates lead monitoring sites in the vicinity of their industrial facilities in Herculaneum, Glover, and Boss. Operation of some of these sites is required by Consent Judgments or Agreements with the department, and operation of other sites is voluntary. The

operating schedules at Church Street and North Cross, some of the voluntary sites in the Herculaneum area, was changed to 1-in-6 from 1-in-3 and everyday sampling, respectively, effective January 1, 2014 and one the Ursuline site, also a voluntary site, was discontinued. The State continues lead monitoring at Ursuline. In addition, the Doe Run monitoring sites in Glover (called Post Office and Big Creek) are enclosed by fences within Doe Run property and are therefore no longer considered to be in ambient air.

### 1.3.2 Doe Run Meteorological Sites

Doe Run Herculaneum also operates two meteorological monitoring sites as required by the May 24, 2007 Consent Agreement until cessation of operation of emission units set forth under the 2011 Consent Judgment. Doe Run Herculaneum proposed to discontinue one site and relocate the other site but operate a 10 meter tower at the new location instead of the 40 meter tower. The department will evaluate the new site location for siting criteria requirements. Doe Run Herculaneum ceased processes to the main stack on January 1, 2014.

### 1.3.3 Department's Lead Monitoring Network in Herculaneum

With the cessation of operation of emission units at the Doe Run facility in Herculaneum, the department will carefully evaluate the lead data monitored at its sites in Herculaneum and may consider modification, particularly sampling schedules at the Mott site.

## **2. Sulfur Dioxide Monitoring Network**

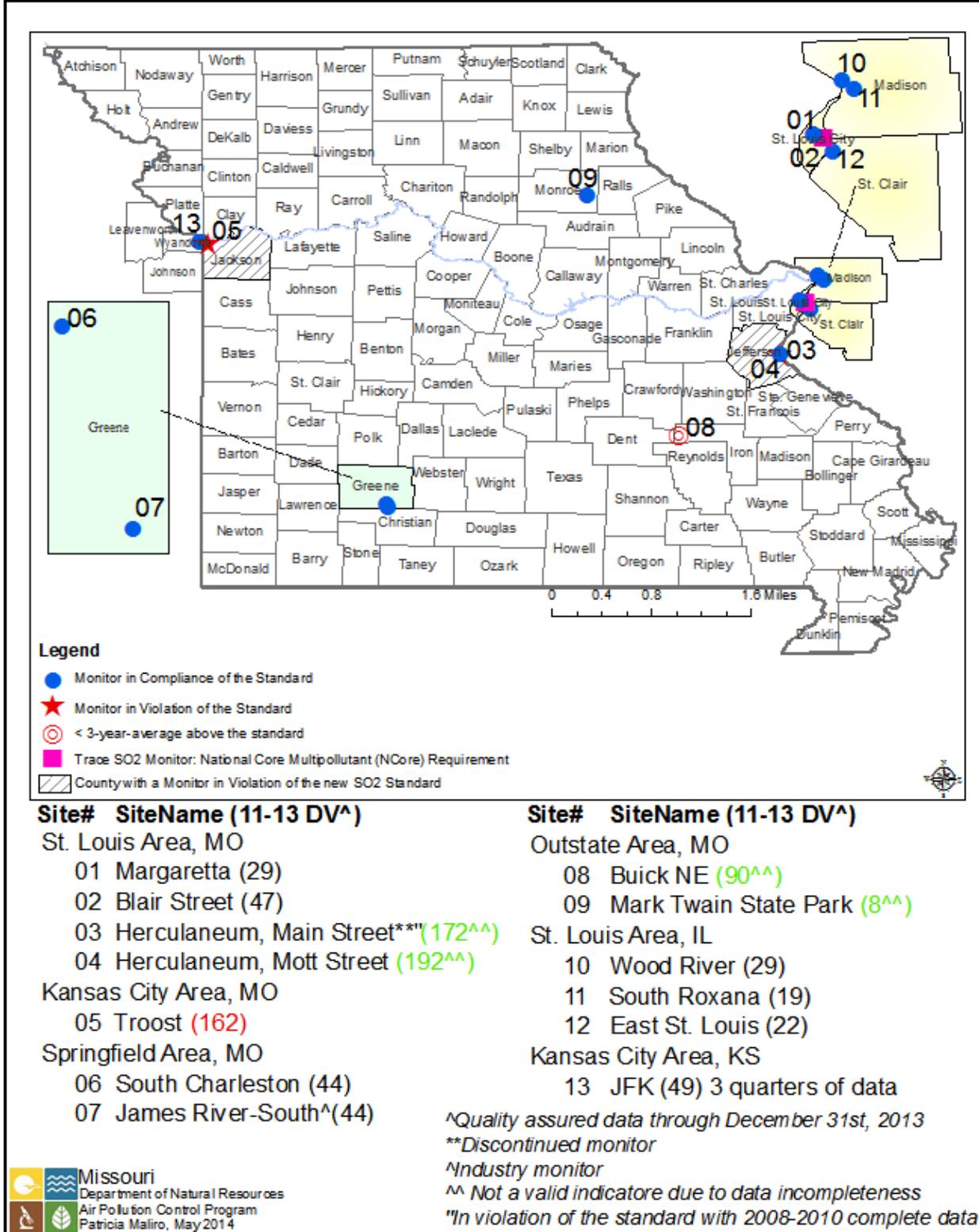
On June 2, 2010, the US EPA revised the primary sulfur dioxide (SO<sub>2</sub>) standard by establishing a 1-hour standard at the level of 75 parts per billion (ppb). The EPA revoked the two previous primary standards of 140 ppb evaluated over 24-hrs and 30 ppb evaluated over an entire year. The 2011 Monitoring Network Plan<sup>1</sup> identifies the minimum network monitoring required by the Population Weighted Emissions Index (PWEI).

On April 17, 2014, US EPA issued proposed data requirements regulations related to SO<sub>2</sub> air quality monitoring and air quality dispersion modeling near emission sources. These proposed regulations were published in the Federal Register on May 13, 2014, and are expected to be finalized late in 2014. Once finalized, they will require either modeling or monitoring to adequately characterize ambient SO<sub>2</sub> concentrations near emission sources larger than a designated size; monitoring pursuant to those regulations will be required to begin in January 2017. The department's current SO<sub>2</sub> network will be modified consistent with the SO<sub>2</sub> Data Requirements Final Rule.

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<sup>1</sup> <http://dnr.mo.gov/env/apcp/docs/2011monitoringnetwork.pdf>

**Missouri Statewide and the Surrounding SO<sub>2</sub> Monitoring Network, 2014**  
 1-hour NAAQS = 75 ppb



### **3. National Air Toxics Trends Stations (NATTS), and Other Non-Criteria Pollutant Special Purpose Monitoring**

#### 3.1 National Air Toxics Trends Stations Monitoring

Routine NATTS monitoring will continue at Blair Street. The department is discontinuing sampling and analysis for hexavalent chromium effective July 1, 2014 consistent with US EPA requirements for NATTS monitoring. In addition to the regular NATTS monitoring, additional NATTS grant funds are being utilized to support collocating a near real time PM<sub>10</sub> Metals Monitor (Xact™ 620) at the Blair Street site to increase understanding of the temporal variation of metals in the ambient air (particularly arsenic and lead) routinely measured by the time integrated 24-hr filter based PM<sub>10</sub> sampling at this site. This project is useful in supplementing ambient air monitoring data objectives addressed in EPA's multi pollutant strategy. Continued availability of funding will allow the PM<sub>10</sub> Metals Monitor (Xact™ 620) to continue for 2015.

#### 3.2 Organic and Elemental Carbon Monitor Evaluation Project

The EPA Office of Air Quality Planning and Standards (OAQPS) contacted the EPA Regional Office and the state of Missouri about participating in a three year monitor evaluation study scheduled to begin in the summer/fall of 2011. EPA provided the monitor and certain related components in exchange for the state providing in-kind staff time to operate and report data to the EPA Air Quality System (AQS) from the instrument. The location for the study is the Blair St. site, since the site is currently part of the NCore, NATTS and Chemical Speciation monitoring programs. The data from the Blair Street site is used extensively in various health and air pollution studies. Since elemental and organic carbon account for a significant amount of the particulate matter mass measured at this site at various times, understanding the temporal variation in carbon species relative to the 24-hr integrated filter based carbon data will be useful in understanding the local source contributions and diurnal variation in the carbon concentrations. This project will be useful in supplementing ambient air monitoring data objectives addressed in EPA's multi pollutant strategy.

Currently, the preliminary near real-time monitoring data for this monitor is being reported each hour to the State of Missouri web page and is being uploaded to AQS.

#### 3.3 Black Carbon

As part of the condition of receiving one time section 103 Grant funds to implement certain sites for the near-roadway monitoring network, the department will continue to conduct special purpose PM<sub>2.5</sub> Black Carbon monitoring at the Forest Park and Blue Ridge I-70 near roadway NO<sub>2</sub> sites using Aethalometers.

## 4. PM<sub>2.5</sub> Monitoring Network

### 4.1 PM<sub>2.5</sub> SLAMS Network

The PM<sub>10c</sub> (local conditions of ambient temperature and barometric pressure) channel and PMcoarse (PM<sub>10-2.5</sub>) channel from the TEOM-1405-DF are being reported for each site as a Special Purpose Monitor since they are available simultaneously with the PM<sub>2.5</sub> FEM channel. The EPA designated the TEOM-1405-DF, operating with firmware version 1.70 and later, as a Federal Equivalent Method (FEM) on November 12, 2013 for PM<sub>10c</sub> and PM<sub>10-2.5</sub>. (<http://www.gpo.gov/fdsys/pkg/FR-2013-11-12/pdf/2013-27016.pdf>). Thermo is yet to release the 1.70 firmware version to integrate into the TEOM-1405-DF samplers. Once released, the PM<sub>10c</sub> and PM<sub>10-2.5</sub> parameters will provide more temporal and special coverage for the various fractions of particulate matter at the PM<sub>2.5</sub> monitoring sites in the network.

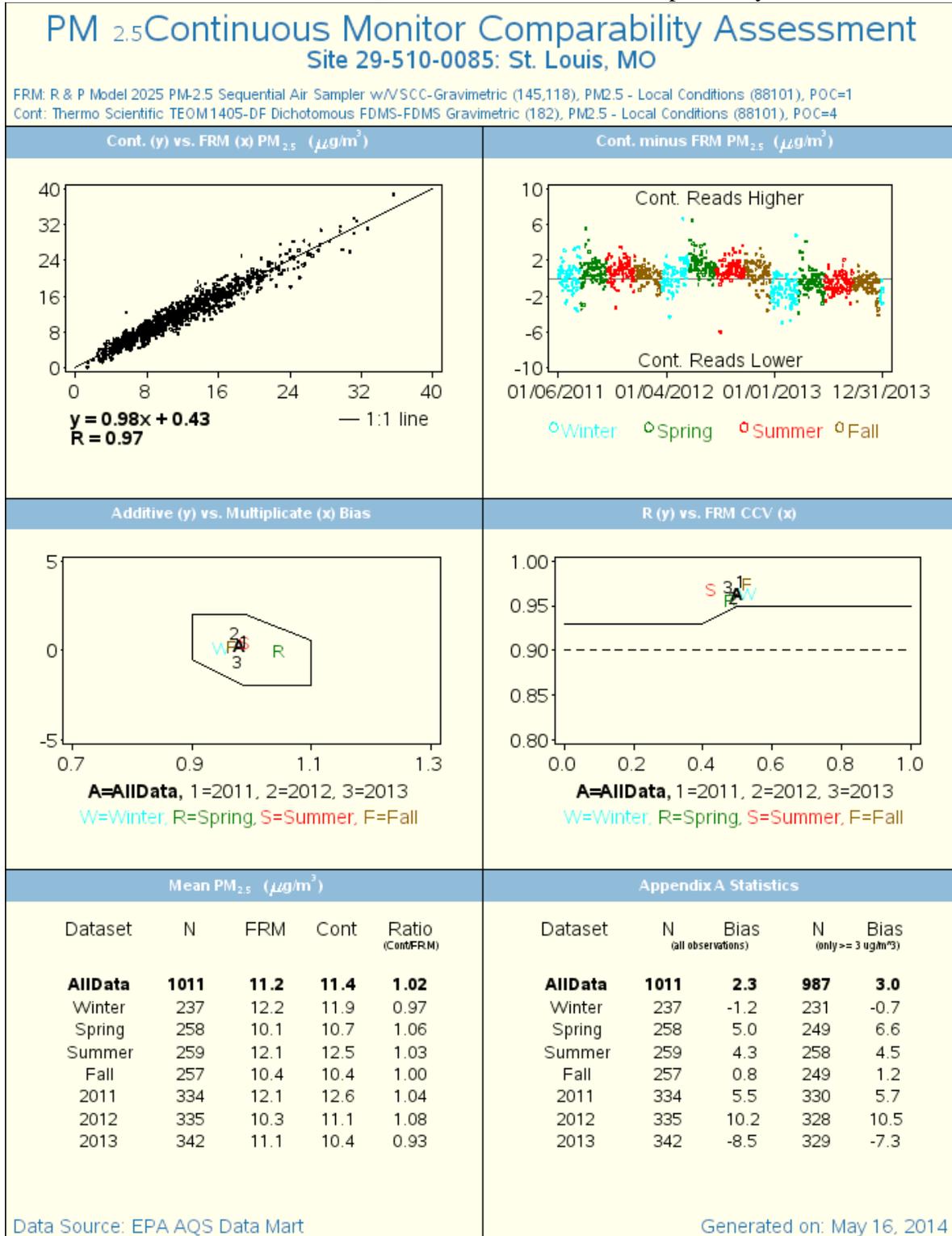
Network PM<sub>2.5</sub> collocated FRM requirements are satisfied at the Blair Street NCore site in St. Louis and the Troost site in Kansas City. The following page reports the FRM/FEM Comparability statistics (Class III performance criteria of 40 CFR Part 53) for three years of the TEOM-1405-DF (EQPM-0609-182) operating at the Blair Street, St. Louis NCore site. The additive and multiplicative bias meets the Class III performance criteria of 40 CFR Part 53.

Although the FEM monitor at Blair Street is biased higher than the FRM, the FRM is designated as the primary reporting monitor for the site to meet PM<sub>10-2.5</sub> NCore monitoring requirements. The Blair Street site is the PM<sub>2.5</sub> design value site for the Missouri side of the St. Louis CBSA area and the positive FEM bias at Blair is unlikely to affect the design value.

The TEOM-1405-DF is collocated at the St. Joseph Pump Station site to satisfy the collocation requirement for that FEM method.

Class III Performance Criteria of 40 CFR Part 53  
 Blair Street St. Louis Air Quality System # 29-510-0085  
 TEOM-1405-DF, EQPM-0609-182 (PM<sub>2.5</sub>)  
 January 6, 2011 through December 31, 2013

Source: EPA AirData PM<sub>2.5</sub> Continuous Monitor Comparability Assessments



#### 4.2 PM<sub>2.5</sub> Chemical Speciation Network (CSN)

PM<sub>2.5</sub> speciation sampling is currently being conducted at four locations: Blair Street in St. Louis, Arnold West, Bonne Terre, and Liberty. The US EPA is currently conducting an evaluation of the national speciation network. It is possible that, as a result of this evaluation and consequent funding changes, one or more of these sites will need to be discontinued or sampling schedule modified, possibly as early as January 2015. The department will communicate with EPA regarding these possible changes, and any changes will be documented in the next Monitoring Network Plan.

## REVISED PM<sub>2.5</sub> MONITORING NETWORK

Site	Schedule*	Type	Agency	NAAQS
<b>St. Louis</b>				
1. Blair St.	1	FRM	ESP	24 hr & Annual, NCore PMcoarse
	6	Collocated	ESP	Doubles as PMcoarse collocated sampler
	3	Speciation <sup>a</sup>	ESP	
	H	TEOM-1405-DF FEM	ESP	AQI, NCore PM10-2.5 continuous
2. Branch St.	H	TEOM-1405-DF FEM	ESP	24 hr & AQI (Unique Middle Scale Monitor)
3. South Broadway	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
4. Ladue	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
5. Arnold West	3	Speciation <sup>a</sup>	ESP	
	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
6. Forest Park (near-roadway)	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI (Micro Scale Monitor)
<b>Kansas City</b>				
7. Liberty	3	Speciation <sup>a</sup>	ESP	
	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
8. Troost	3	Collocated FRM	ESP	24 hr & Annual (Quality Assurance)
	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
9. Blue Ridge I-70 (near-roadway)	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI (Micro Scale Monitor)
10. Richards-Gebaur South	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
<b>Springfield</b>				
11. MSU	H	TEOM-1405-DF FEM	ESP	AQI, PM10-2.5 continuous
<b>St. Joseph</b>				
12. Pump Station	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI, PM10-2.5 continuous
	H	TEOM-1405-DF FEM	ESP	Collocated FEM-PM2.5
<b>Outstate</b>				
13. El Dorado Springs	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
	3	IMPROVE	ESP	
14. Bonne Terre	3	Speciation <sup>a</sup>	ESP	
15. Mingo	3	IMPROVE	Fish & Wildlife Service	
16. Hercules Glades	3	IMPROVE	Forest Service	
<sup>a</sup> Under EPA Network Assessment				
* 1 = Everyday sampling; 3 = Every third day; 6 = Every sixth day; H = Continuous monitoring, hourly data reported.				
† The Branch St. Monitor is a unique middle scale impact site and not eligible for comparison to the Annual PM <sub>2.5</sub> NAAQS consistent with 40 CFR 58.30.				
Near-Roadway PM <sub>2.5</sub> monitors- 40 CFR 58, Appendix D, 4.7.1 (c) (2) "... In many situations, monitoring sites that are representative of microscale or middle-scale impacts are not unique and are representative of many similar situations. This can occur along traffic corridors or other locations in a residential district. In this case, one location is representative of a number of small scale sites and is appropriate for evaluation of long-term or chronic effects."				

## **5. Ozone Monitoring Network**

There are no planned changes to the ozone monitoring network, and ozone monitoring will continue to be conducted all year at the Mark Twain State Park (MTSP) site to collect ozone background concentrations need for PSD modeling projects and at Blair Street to meet the NCore ozone monitoring requirement. The current monitoring network is based on the current ozone standard and ground-level ozone air quality monitoring network design requirements.

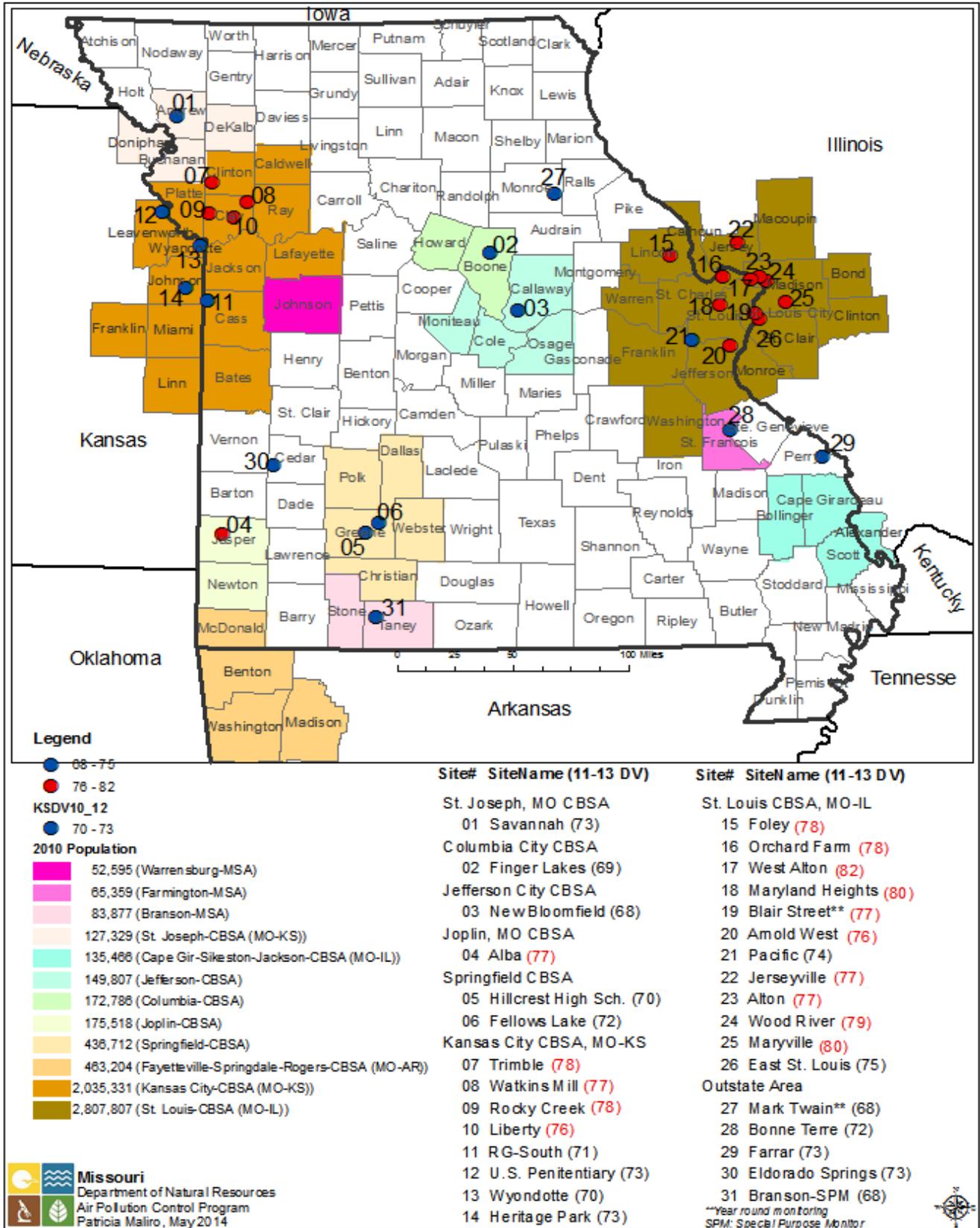
The Watkins Mill monitoring site was evaluated in October 2013, and it was determined that the monitor siting did not meet one dripline criteria in the US EPA probe siting criteria (40 CFR, Part 58, Appendix E). The monitor inlet was too close (about 5 meters) to the dripline of trees more than 30 feet tall. Although the representativeness of the data is not anticipated to be affected at this time, staff felt that the continued tree growth could present future problems. The property owner was not agreeable to trimming or removing the tree. Relocation of the shelter was discussed with US EPA monitoring staff, and a new monitoring shelter was installed in February 2014 approximately 25 meters north of the old shelter (and farther from the trees). This will ensure that the growth of the aforementioned tree would not continue to encroach on the shelter and that the monitor will still be representative of the site's urban spatial scale of representativeness. Figure 5-1 shows the relative locations of the new and old shelters.

**Figure 5-1: New monitoring shelter at Watkins Mill State Park**

The new shelter is in the foreground, and the old shelter is near the utility pole in the background, to the south. The trees of concern are just beyond the old shelter. The old shelter has been subsequently removed.



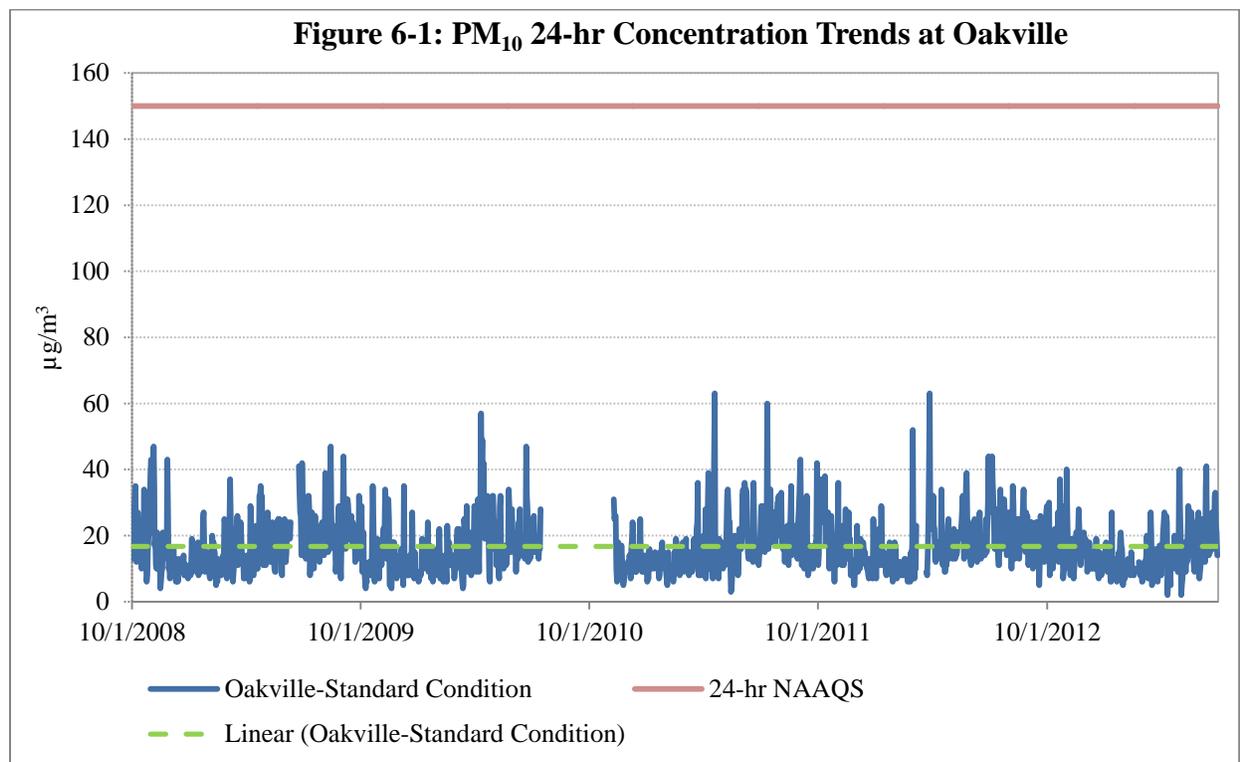
**Missouri Statewide Ozone (O<sub>3</sub>) Monitoring Network, 2014**  
 2008 Primary 8-hour NAAQS = 75 Parts per Billion (ppb)



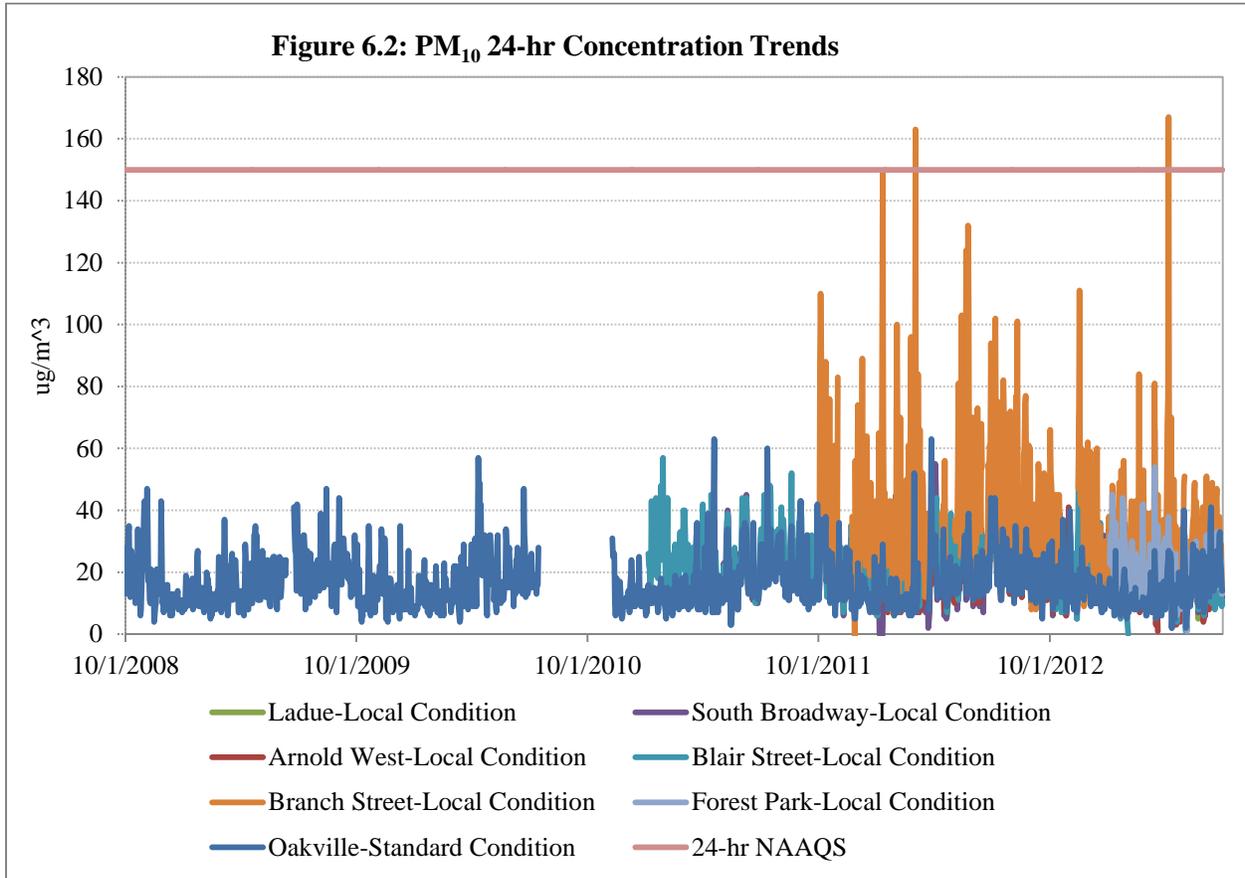
## 6. PM<sub>10</sub> Monitoring Network

As discussed in Section 4, the TEOM-1405-DF monitor has the capability of reporting the PM<sub>10c</sub> along with the PM<sub>2.5</sub> FEM measurements. Once the 1.70 firmware version is integrate into the TEOM-1405-DF samplers, the number of continuous PM<sub>10</sub> monitors comparable to the NAAQS will increase by four (4) sites to include Blair Street, Ladue, South Broadway and Forest Park, the near roadway site, in the St. Louis area. This will bolster the count toward the PM<sub>10</sub> minimum monitoring requirements in this CBSA to a total count of ten (10) monitors, as specified in 40 CFR 58 Appendix G §4.6.

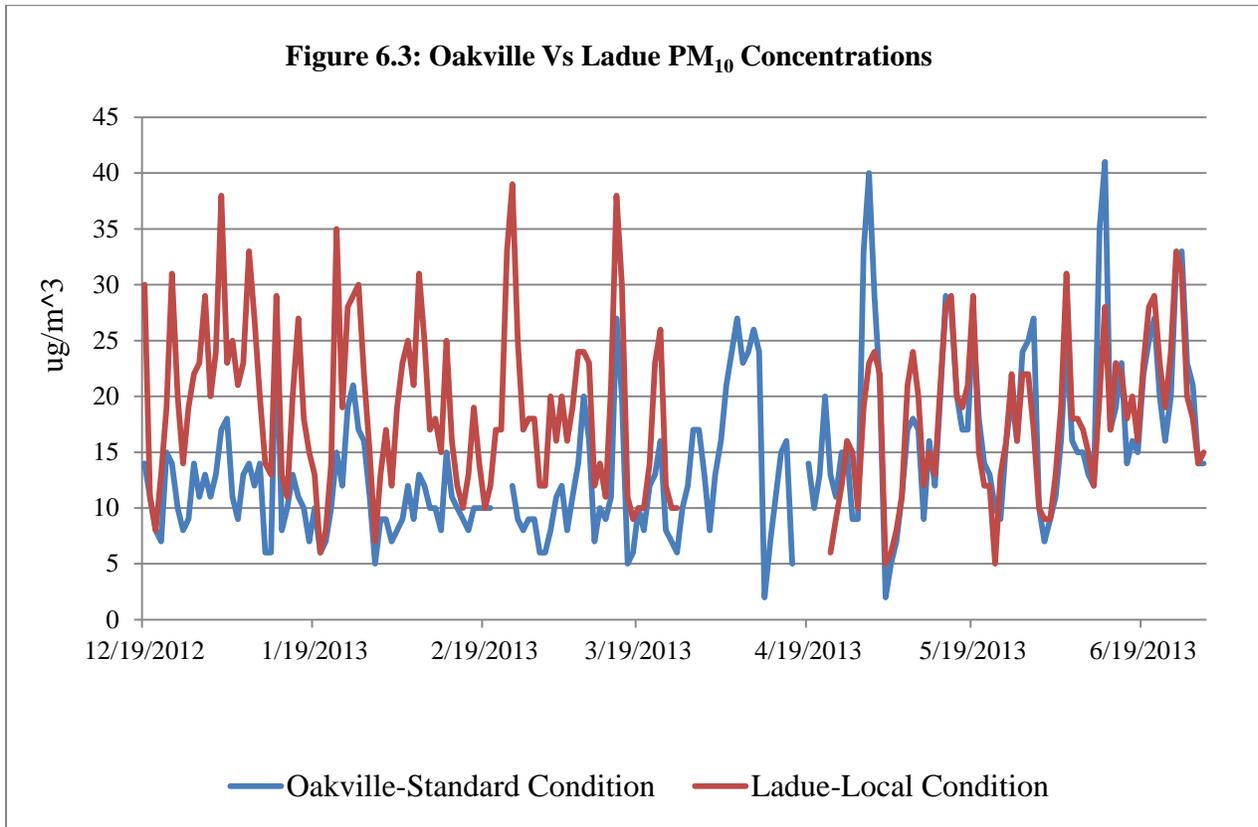
The department is proposing to discontinue PM<sub>10</sub> monitoring at Oakville contingent on EPA approval of this plan and successful integration of the TEOM-1405-DF monitor's PM<sub>10</sub> FEM designation. PM<sub>10</sub> monitoring began on 10/01/2008 at the Oakville site. Few spikes (impacts) in PM<sub>10</sub> concentrations have been monitored since its operation and they all have been less than 63  $\mu\text{g}/\text{m}^3$ , significantly below the 24-hour standard (150  $\mu\text{g}/\text{m}^3$ ) and stable (Fig 6-1). Based on the monitored PM<sub>10</sub> concentrations and trends and variability in the concentrations at Oakville, thus far, there is less than 10% chance that the concentration will exceed 80 percent of the PM<sub>10</sub> NAAQS during the next three years.



Compared to other PM<sub>10</sub> sites in the St. Louis area, the Oakville site has monitored PM<sub>10</sub> concentrations that are comparable or lower than those measured at Arnold West, South Broadway, Blair Street, Ladue, Forest Park, and Branch Street. As noted in Fig 6.2, occurrence of the impacts, in concentrations, is not simultaneous across the sites, an indication of local impacts, to a greater extent.

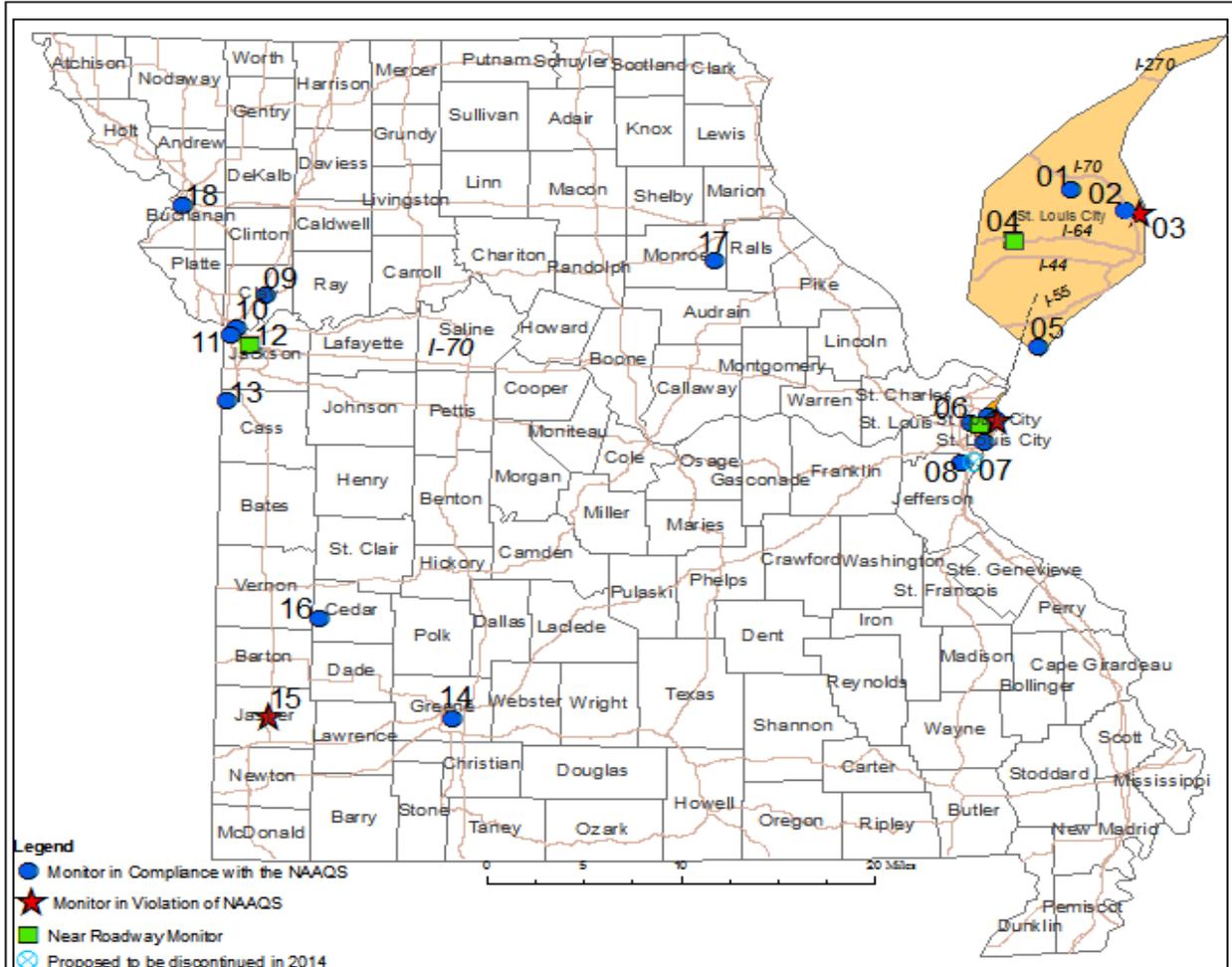


Particularly, Oakville has, overall, consistently measured lower concentrations than Ladue, a PM<sub>10</sub> monitor located in the same county as Oakville and is not specifically required by an attainment plan or maintenance plan. The PM<sub>10</sub> monitor at Oakville is therefore proposed to be discontinued.



Note: PM<sub>10</sub> at local conditions of ambient temperature and barometric pressure has been estimated to be 10-25% lower than PM<sub>10</sub> at some conditions. Local conditions in the Midwest and Southeast areas are close to standard conditions such that the PM<sub>10</sub> and PM10\_LC concentrations on average yield similar results.

**Missouri Statewide PM<sub>10</sub> Monitoring Network, 2014**  
 24-hour NAAQS = 150 Micrograms per Cubic Meter (µg/m<sup>3</sup>)



Site#	SiteName (11-13 # of Expected Exceedances*)	Site#	SiteName (11-13 # of Expected Exceedances*)	Site#	SiteName (11-13 # of Expected Exceedances*)
<b>St. Louis Area</b>		<b>Kansas City Area</b>		<b>Springfield Area</b>	
01	Margaretta** (0.0)	09	Liberty <sup>^</sup> (0.0)	14	Missouri State University <sup>^</sup> (0.0)
02	Blair Street <sup>^</sup> ~ (0.0)	10	Front Street** (0.0)	<b>Outstate Area</b>	
03	Branch Street*** (2.1)	11	Troost <sup>^</sup> ~ (0.0)	15	Carthage** (1.9)
04	Forest Park <sup>^</sup> (0.0)	12	Blue Ridge, I-70 <sup>^</sup> (0.0)	16	El Dorado Springs <sup>^</sup> (0.0)
05	South Broadway <sup>^</sup> (0.0)	13	RG - South <sup>^</sup> (0.0)	17	Mark Twain State Park** (0.0)
06	Ladue <sup>^</sup> (0.0)			18	St. Joseph State Park <sup>^</sup> ~ (0.0)
07	Oakville (0.0)				
08	Arnold West <sup>^</sup> (0.0)				

\*Quality Assured data through December 31st, 2013  
 \*\*PM10-Continuous  
<sup>^</sup>PM10-Local Condition. Method not yet designated as a Federal Equivalent Method  
 ~PM10-Filter based  
 †PM10-Continuous to replace PM10-Filter based  
 Red & Bold: Violation of the standard.  
 The 24-hour standard is attained when the expected number of exceedances is less than or equal to one when averaged over 3 calendar years.


**Missouri**  
 Department of Natural Resources  
 Air Pollution Control Program  
 Patricia Maliro, May 2014

## 7. Nitrogen Dioxide (NO<sub>2</sub>) Monitoring Network

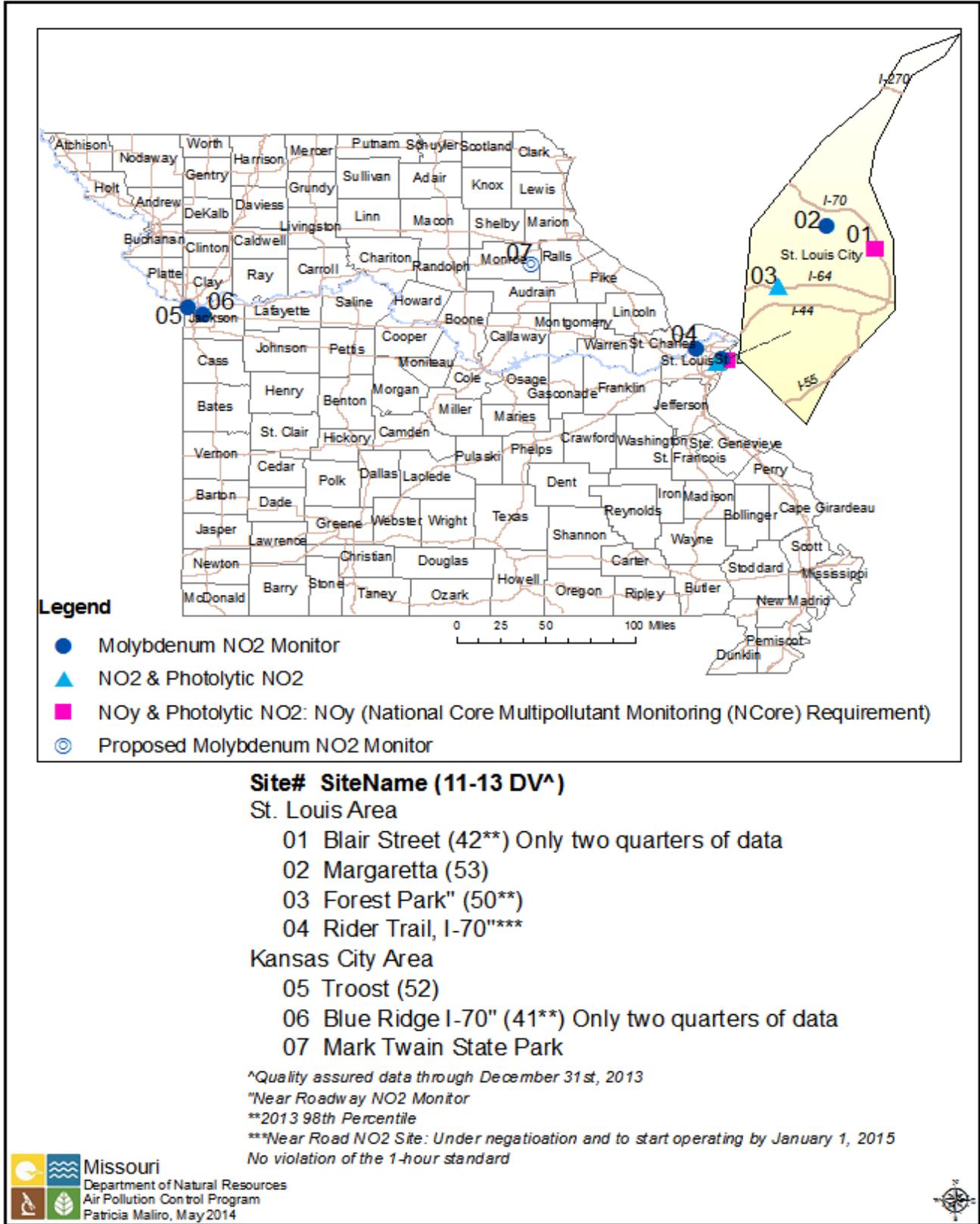
The department added one near-roadway NO<sub>2</sub> monitor to the network in the St. Louis area at the Forest Park I-40/64 near-roadway monitoring site on January 1, 2013. A near-roadway site in the Kansas City area at the Blue Ridge I-70 site was added on July 1, 2013. The Community-wide monitoring network requirement of 40 CFR 58 Appendix D, 4.3.3(a) is satisfied by the existing Troost and Margaretta monitoring sites.

EPA has identified the Margaretta NO<sub>2</sub> site as one of the minimum of forty additional NO<sub>2</sub> monitoring stations nationwide in any area, inside or outside of CBSAs, above the minimum monitoring requirements, with a primary focus on siting these monitors in locations to protect susceptible and vulnerable populations. This requirement is the responsibility of the respective Regional Administrators working with their respective states consistent with 40 CFR 58 Appendix D, 4.3.4(a). For additional information about this topic consult the following EPA website resource: <http://www.epa.gov/ttn/amtic/svpop.html>

The department has added a photolytic NO<sub>2</sub> monitor at the Blair Street NCore site, St. Louis. Photolytic NO<sub>2</sub> monitoring is identified in EPA's long term monitoring strategy, and this monitoring, supplements the NO<sub>y</sub> monitoring being conducted at the NCore site. A photolytic NO<sub>2</sub> monitor is also being operated at the Forest Park near-roadway monitoring site to evaluate the differences between the tradition molybdenum converter based NO<sub>2</sub> method and the photolytic NO<sub>2</sub> method in the near-roadway monitoring environment.

The department is proposing to add NO, NO<sub>2</sub>, and NO<sub>x</sub> monitoring at the Mark Twain State Park site for Prevention of Significant Deterioration (PSD) permit projects and other potential modeling and data analysis. The department has upgraded some of the infrastructure at the site to maintain compliance with siting criteria.

**Missouri Statewide Nitrogen Dioxide (NO<sub>2</sub>) Monitoring Network, 2014**  
 1-hour NAAQS = 100 ppb



## 7.1 NO<sub>2</sub> Near-Roadway Monitoring

### 7.1.1 Near-Road Monitoring Requirements

NO<sub>2</sub>: The final rule revising the NAAQS to add the 1-hour standard of 100 ppb (3-year average of annual 98<sup>th</sup> percentile), signed 1/22/2010 and published 2/9/2010 requires near-road NO<sub>2</sub> monitoring at two sites in the St. Louis CBSA (population 2.8 million) and one site in the Kansas City CBSA (population 2.0 million), based on population and traffic count. Sites were to be identified in the 7/2012 air monitoring plan and begin operation by 1/1/2013. The schedule was revised in a rulemaking published in the Federal Register on March 14, 2013. The revised rule now requires that the first St. Louis area near-road site begin operation in January 2014, the Kansas City area site begin operation in January 2014, and the second St. Louis area site begin operation in January 2015. Due in large part to receipt of one-time funding for establishment of near-road sites, the department established the first St. Louis area site in January 2013, and the Kansas City area site was established in July 2013. The site selection process is described in the 2013 Monitoring Network Plan, <http://dnr.mo.gov/env/apcp/2013monitoringnetworkplan.pdf>. The second St. Louis area site will be established in January 2015 as described below.

#### 7.1.2 Analysis and Site Selection for the Second St. Louis Area Site.

As described in detail in the 2013 Monitoring Network Plan, traffic count information was used to identify candidate highway segments for near-roadway monitoring. One of the identified segments was Interstate 70 just west of Interstate 270, with annual average daily traffic of approximately 161,000. The second near-roadway site in the St. Louis area, called Rider Trail S. I-70, will be installed adjacent to this highway segment, on the north side of I-70, and begin operation by January 1, 2015.

The first St. Louis area near-roadway site, Forest Park, is located adjacent to I-64 west of downtown St. Louis. Air monitoring results at that site are consistent with commuter traffic, heaviest on weekday mornings. The second site is adjacent to I-70, which extends across the United States from Maryland to Utah and carries more through traffic in addition to commuter traffic and other local traffic. Therefore, the fleet mix and congestion patterns relative to time of day and day of the week are expected to be different than at the first site. US EPA Region 7 monitoring staff have been apprised of the site evaluation process and have visited all of the candidate monitoring sites. The location adjacent to I-70 was ranked third of five locations considered in the St. Louis area; the first-ranked location was the Forest Park site, established on 01/01/2013 as the first St. Louis area near-roadway site.

The Rider Trail, I-70 site will include monitoring of NO, NO<sub>2</sub>, NO<sub>x</sub>, and meteorological parameters and will begin operation by January 1, 2015. Figure 7.2-1 shows an aerial photograph of the approximate location of the Rider Trail, I-70 site.

**Figure 7.2-1. Location of Rider Trail, I-70 near-roadway site.**



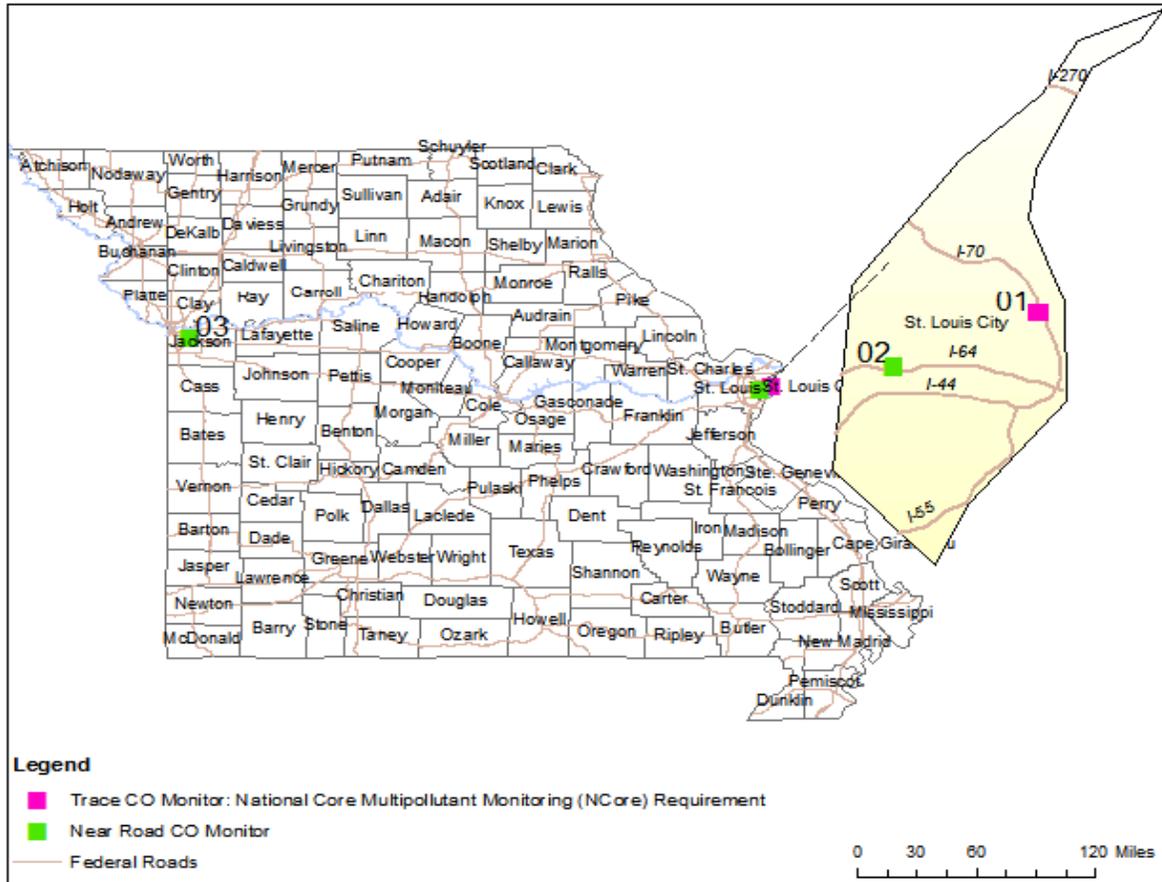
## **8. Carbon Monoxide (CO) Monitoring Network**

On August 12, the EPA issued a decision to retain the existing NAAQS for CO but revised the minimum requirements for CO monitoring requiring CO monitors to be sited near roads in certain area. The final rule published on August 31, 2013 requires near-road CO monitoring at one site in the St. Louis CBSA by 1/2015 and one site in the Kansas City CBSA by 1/2017. The department established CO monitoring sites at the same time as the NO<sub>2</sub> monitoring sites at the two near-roadway sites described above. The department has added near-roadway CO monitors to the network at the Forest Park I-40/64 and Blue Ridge I-70 near-roadway monitoring sites. No additional changes to the CO monitoring network are proposed in this plan.

# Missouri Statewide Carbon Monoxide (CO) Monitoring Network, 2014

1-hour NAAQS = 35 ppm

8-hour NAAQS = 9 ppm



## Site# SiteName (11-13 DV^: 1-hour, 8-hour Averages)

### St. Louis Area

- 01 Blair Street (1.7, 1.0)
- 02 Forest Park\* (1.4, 1.0)
- 03 Blue Ridge, I-70\* (1.6, 1.0)

<sup>^</sup>Quality assured data through December 31st, 2013

\*Began Sampling in 2013

*No violations of the 1-hour and 8-hour standards*



## **9. Rural National Core**

EPA has expressed interest in pursuing the installation and operation of a rural NCore site in Missouri. Department staff has suggested that EPA evaluate the Mark Twain State Park Site as a candidate for consideration of the rural NCore site due to its location and the historically low PM<sub>10</sub> and SO<sub>2</sub> concentrations measured at the site. The department is waiting for EPA to identify specifically what funding may become available for this project before committing additional resources to the project. The department will continue to work with EPA Region VII staff to pursue this project at some time in the future.

Currently the department is conducting background monitoring for SO<sub>2</sub>, PM<sub>10</sub>, and Ozone and proposing to add NO, NO<sub>2</sub>, and NO<sub>x</sub> monitoring as described in section 7 above. Data from monitors the Mark Twain State Park Site will provide background ambient air monitoring concentrations for Prevention of Significant Deterioration (PSD) permit projects and other potential modeling purposes and other analysis.

## Network Description/Components

See Appendix 1 for the Network Description, which includes the following components.

### Site Data

All ambient air monitoring sites are recorded in the EPA's Air Quality System database. Data includes location data such as latitude & longitude.

#### Air Quality System Site Code

The site code includes a numerical designation for State, county, and individual site. The state and county codes are assigned a number based on the alphabetical order of the State or county. Site numbers are assigned sequentially by date established in most counties. St. Louis County sites also have a division for municipality within St. Louis County.

#### Street Address

The official Post Office address of the lot where the monitors are located. Because not all sites are located in cities or towns, the street address is occasionally given as the intersection of the nearest streets or highways.

#### Geographical Coordinates

The coordinate system used by Missouri Department of Natural Resources is latitude and longitude.

#### Air Quality Control Region

Air Quality Control Regions, or AQCR, are defined by EPA and designates either urban regions, like St. Louis or Kansas City, or rural sections of a state, such as northeast or southwest Missouri.

<u>AQCR</u>	<u>AQCR Name</u>
070	Metropolitan St. Louis
094	Metropolitan Kansas City
137	Northern Missouri
138	SE Missouri
139	SW Missouri

#### Core Based Statistical Area

Core Based Statistical Areas, or CBSA are defined by the U.S. Census Bureau.

<u>CBSA Code</u>	<u>CBSA Name</u>
00000	Not in a CBSA
16020	Cape Girardeau-Jackson, MO-IL
17860	Columbia, MO
27620	Jefferson City, MO
27900	Joplin, MO
28140	Kansas City, MO-KS
41140	St. Joseph, MO-KS
41180	St. Louis, MO-IL
44180	Springfield, MO

### Monitor Data

Each monitor is designed to detect a specific chemical pollutant or group of related pollutants. A site may have one or many monitors and not all sites will have the same monitors.

### Pollutant

The common name of the pollutant. “Criteria” pollutants are defined by statute in the Clean Air Act.

### Air Quality System Pollutant Code

Each pollutant has a specific numerical code to distinguish it from others. One monitor in St. Louis City uses a code of ‘00000’ because the monitor detects an entire group of chemicals, volatile organic pollutants, which are too numerous to list individually.

<u>Pollutant Code</u>	<u>Pollutant</u>
00000	Volatile Organic Compounds, or VOCs
14129	Lead – Local Conditions
42101	Carbon Monoxide
42401	Sulfur Dioxide
42406	Sulfur Dioxide 5-min
42600	Reactive Oxides of N (NOY)
42601	Nitric Oxide
42602	Nitrogen Dioxide
42603	Oxides of Nitrogen
44201	Ozone
61103	Resultant Wind Speed
61104	Resultant Wind Direct
62101	Outdoor Temperature
62107	Indoor Temperature
62201	Relative Humidity
63301	Solar Radiation
64101	Barometric Pressure
68105	Average Ambient Temperature
68108	Sample Baro Pressure
81102	PM <sub>10</sub>
84313	Black Carbon
85101	PM <sub>10</sub> - LC
85129	Lead PM10 LC - FRM/FEM
86101	PMCoarse - LC (FRM Diff)
86502	Acceptable PMCoarse - LC
88101	PM <sub>2.5</sub> FRM
88500	PM <sub>2.5</sub> Tot Atmospheric
88501	PM <sub>2.5</sub> Raw Data
88502	PM <sub>2.5</sub> AQI/Speciation
88503	PM <sub>2.5</sub> Reference
61106	Sigma Theta
62106	Temperature Difference

65102	Precipitation
84314	UV Carbon PM2.5 STP
85102	Antimony
85103	Arsenic PM10 LC
85107	Barium PM10 LC
85109	Bromine PM10 LC
85110	Cadmium PM10 LC
85111	Calcium PM10 LC
85112	Chromium PM10 LC
85113	Cobalt PM10 LC
85114	Copper PM10 LC
85126	Iron PM10 LC
85128	Lead PM10 LC
85132	Manganese PM10 LC
85136	Nickel PM10 LC
85142	Mercury PM10 LC
85154	Selenium PM10 LC
85160	Tin PM10 LC
85161	Titanium PM10 LC
85164	Vanadium PM10 LC
85166	Silver PM10 LC
85167	Zinc PM10 LC
85173	Thallium PM10 LC
85180	Potassium PM10 LC
88160	Tin PM10 LC
88305	OC CSN Unadj PM2.5 LC TOT
88307	EC CSN Unadj PM2.5 LC TOT
88312	Total Carbon PM2.5 LC TOT
88316	Optical EC PM2.5 LC TOT

#### Parameter Occurrence Code

The Parameter Occurrence Code (POC) distinguishes between different monitors for the same pollutant, most often collocated monitors used for precision and quality assurance. For PM<sub>2.5</sub>, different parameter occurrence codes are assigned to FRM, collocated FRM, continuous, and speciation monitors.

#### Collocated

Collocated monitors are used for precision and quality assurance activities, and for redundancy for critical pollutants such as ozone.

### Sampling Frequency

Sampling frequency varies for each pollutant, depending on the nature of the NAAQS standard and the technology used in the monitoring method. Most gaseous pollutants, PM<sub>2.5</sub> and PM<sub>10</sub> monitors use continuous monitoring FEM methods and are averaged over one hour. Some particulate pollutants are filter-based FRM methods and averaged over one day.

### Scale of Representation

Each monitor is intended to represent an area with similar pollutant concentration. The scales range from only a few meters to many kilometers.

MIC Microscale - defines the concentration in air volumes associated with area dimensions ranging from several meters up to about 100 meters.

MID Middle - defines the concentration typical of areas up to several city blocks in size with dimensions ranging from about 100 meters to 0.5 kilometers.

NBR Neighborhood - defines concentrations within an extended area of a city that has relatively uniform land use with dimensions in the 0.5 to 4.0 kilometers.

URB Urban - defines an overall citywide condition with dimensions on the order of 4 to 50 kilometers.

REG Regional - defines air quality levels over areas having dimensions of 50 to hundreds of kilometers.

### Monitor Type

The monitor's administrative classification as determined by the purpose for the monitor in the agency sampling strategy. Assignment of monitor types "NCORE" and "PAMS" is limited to EPA Headquarters and is done only after a complete review and approval is done for all site/monitor metadata.

<u>Code</u>	<u>Description</u>
IMPROVE	IMPROVE or IMPROVE Protocol
INDEX SITE	(not currently used by MO)
INDUSTRIAL	Used to indicate sites operated by an industry Primary Quality Assurance Organization (PQAO)
NATTS	National Air Toxics Trends Station
NON-EPA FEDERAL	(not currently used by MO)
NON-REGULATORY	Not used for NAAQS Compliance
PAMS	(not currently used by MO)
PROPOSED NCORE	
QA COLLOCATED	Collocated to Satisfy 40 CFR Part 58, Appendix A
SLAMS	State or Local Air Monitoring Station
SPECIAL PURPOSE	Special Purpose Monitoring Station (SPM or SPMS)
SUPLMNTL SPECIATION	
TRENDS SPECIATION	
TRIBAL MONITORS	(not currently used by MO)

UNOFFICIAL PAMS (not currently used by MO)

State Monitoring Objective

Each monitor has a distinct objective such as providing real-time data for public awareness or use in determining compliance with regulations. The state monitoring objective provides more information about the purpose of the monitoring in addition to the monitor objective required of 40 CFR 58.10(a)(6).

<u>State Objective Code</u>	<u>Objective</u>
AQI	Public Information
COM	NAAQS Compliance
MET	Meteorological Data
RES	Research
STA	State Standard

Units

The physical terms used to quantify the pollutant concentration, such as parts per million or micrograms per cubic meter.

<u>Unit Code</u>	<u>Unit Description</u>
001	$\mu\text{g}/\text{m}^3$
007	parts per million
008	parts per billion
012	miles per hour
013	knots
014	degree, compass
015	degree Fahrenheit
017	degree Celsius
018	Langley's
019	percent humidity
022	inches Mercury
025	Langley's per minute
079	$\text{Watts}/\text{m}^2$
105	$\mu\text{g}/\text{m}^3$ LC
121	parts per trillion

Monitoring/Analytical Method

Each monitor relies on a scientific principle to determine the pollutant concentration, which is described by the sampling method. Each method code is specific for a particular pollutant; therefore a three numeral code may be used for different methods for different pollutants. This is required of 40 CFR 58.10(a)(3).

Monitoring Objective

This is the primary monitoring objective(s) for the monitoring parameter required of 40 CFR 58.10(a)(6). The monitoring Objective is specific to the pollutant. Some sites may have more than one monitoring objective, but the primary objective is listed first.

## **APPENDIX 1: MISSOURI MONITORING NETWORK DESCRIPTION**

## Missouri Ambient Air Monitoring Network



**MIC**     *Microscale*     *Several meters up to about 100 meters*

**MID**     *Middle*     *100 meters to 0.5 kilometer*

**NBR**     *Neighborhood*     *0.5 to 4.0 kilometers range*

**URB**     *Urban*     *4 to 50 kilometers*

**REG**     *Regional*     *Tens to hundreds of kilometers*

**COM**     *NAAQS Compliance*

**MET**     *Meteorological Data*

**N/A**     *Not Applicable*

**NCore**     *National Multi-Pollutant Monitoring Stations*

**NON-A**     *Non-Ambient Site*

**NON-R**     *Non-Regulatory*

**RES**     *Research*

**SLAMS**     *State and Local Monitoring Stations*

**SIP**     *State Implementation Plan*

**SPEC**     *Speciation*

**STA**     *State Standard*

**SPM**     *Special Purpose Monitoring*

**Buck-Up**     *A monitor where Quality Assurance/Quality Control is being performed but no data is reported to the EPA Air Quality System database unless the primary monitor does not produce a valid measurement.*

# City Utilities

## James River South

AQS Site Number **29-077-0037**

James River South, Springfield, MO 65804

**Latitude:** 37.104461 **AQCR:** 139 SW Missouri

**Longitude:** -93.25339 **MSA:** 7920 Springfield, MO

**Elevation (ft):** 1227

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Sulfur Dioxide	42401	Industrial	3	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	Source Oriented
Sulfur Dioxide Max 5-min Avg	42406	Industrial	3	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	Source Oriented

# Doe Run Buick

## Doe Run Buick - Buick NE

AQS Site Number **29-093-9008**

347 Power Lane (Address, Elevation, Lati, and Longi to be confirmed)

**Latitude:** 37.65214      **AQCR:** 138      SE Missouri

**Longitude:** -91.11689      **MSA:** 0000      Not in a MSA

**Elevation (ft):** 1423

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		Industrial	1	<input type="checkbox"/>	1/6	MID	COM	105	ug/m^3-LC	113	Doe Run Mass Spectra ICAP	Source Oriented
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other

## Doe Run Buick - North #5 (NON-A)

AQS Site Number **29-093-0021**

Doe Run Buick - North#5, Buick, MO 65439

**Latitude:** 37.65178      **AQCR:** 138      SE Missouri

**Longitude:** -91.13094      **MSA:** 0000      Not in a MSA

**Elevation (ft):**

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		Industrial	1	<input type="checkbox"/>	1/6	MID	COM	105	ug/m^3-LC	113	Doe Run Mass Spectra ICAP	Source Oriented

Sample Baro Pressure 68108 Industrial 1  1/6 N/A COM 059 mm (Hg) 780 Instrumental SPM-Other

**Doe Run Buick - South #1 (NON-A)**

**AQS Site Number 29-093-0016**

Doe Run Buick - South#1, Buick, MO 65439

**Latitude:** 37.62400 **AQCR:** 138 SE Missouri

**Longitude:** -91.12827 **MSA:** 0000 Not in a MSA

**Elevation (ft):**

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	SIP	017	deg C	780	Instrumental	SPM-Other
Ambient Temperature	68105	Industrial	2	<input type="checkbox"/>	1/6	N/A	SIP	017	deg C	780	Instrumental	QA Collocated
Lead (TSP) - LC FRM/FEM 14129	Industrial	1	<input type="checkbox"/>	1/6	MID	SIP	105	ug/m^3-LC	113	Doe Run Mass Spectra ICAP	Source Oriented	
Lead (TSP) - LC FRM/FEM 14129	Industrial	2	<input type="checkbox"/>	1/6	MID	SIP	105	ug/m^3-LC	113	Doe Run Mass Spectra ICAP	QA Collocated	
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/6	N/A	SIP	059	mm (Hg)	780	Instrumental	SPM-Other
Sample Baro Pressure	68108	Industrial	2	<input type="checkbox"/>	1/6	N/A	SIP	059	mm (Hg)	780	Instrumental	QA Collocated

# Doe Run Glover

## Doe Run Glover - Big Creek #5 (NON-A)

AQS Site Number **29-093-0029**

Doe Run Glover - Big Creek #5, Glover, MO 65439

**Latitude:** 37.471667 **AQCR:** 138 SE Missouri

**Longitude:** -90.689444 **MSA:** 0000 Not in a MSA

**Elevation (ft):** 927

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		Industrial	1	<input type="checkbox"/>	1/6	MID	COM	105	ug/m^3-LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	Source Oriented
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other

## Doe Run Glover - Post Office #2 (NON-A)

AQS Site Number **29-093-0027**

Doe Run Glover - Post Office #2, Glover, MO 65439

**Latitude:** 37.486111 **AQCR:** 138 SE Missouri

**Longitude:** -90.69 **MSA:** 0000 Not in a MSA

**Elevation (ft):** 927

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Ambient Temperature	68105	Industrial	2	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	QA Collocated

Lead (TSP) - LC FRM/FEM 14129	Industrial	1	<input type="checkbox"/>	1/6	MID	COM	105	ug/m^3-LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	Source Oriented	
Lead (TSP) - LC FRM/FEM 14129	Industrial	2	<input type="checkbox"/>	1/6	MID	COM	105	ug/m^3-LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	QA Collocated	
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other
Sample Baro Pressure	68108	Industrial	2	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	QA Collocated

# Doe Run Herculaneum

## Herculaneum, Broad Street (NON-A)

AQS Site Number **29-099-9005**

847 Broad St., Herculaneum, MO, 63048

**Latitude:** 38.261667 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.379722 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 500

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	SIP	017	deg C	780	Instrumental	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		Industrial	1	<input type="checkbox"/>	1/6	MID	SIP	105	ug/m <sup>3</sup> -LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	Source Oriented
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/6	N/A	SIP	059	mm (Hg)	780	Instrumental	SPM-Other

## Herculaneum, Church Street (NON-A)

AQS Site Number **29-099-0024**

951 Church St., Herculaneum, MO 63048

**Latitude:** 38.258667 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.380889 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 463

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Ambient Temperature	68105	Industrial	2	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	QA Collocated

Lead (TSP) - LC FRM/FEM 14129	Industrial	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	Source Oriented	
Lead (TSP) - LC FRM/FEM 14129	Industrial	2	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	QA Collocated	
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other
Sample Baro Pressure	68108	Industrial	2	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	QA Collocated

### Herculaneum, City Hall (Mott Street)

AQS Site Number **29-099-0020**

Mott Street, Herculaneum, MO, 63048

**Latitude:** 38.263394    **AQCR:** 070    Metropolitan St. Louis

**Longitude:** -90.379667    **MSA:** 7040    St. Louis, MO-IL

**Elevation (ft):** 468

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>Back-POC</i>	<i>Up-Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>	
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/1	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Ambient Temperature	68105	Industrial	2	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	780	Instrumental	QA Collocated
Lead (TSP) - LC FRM/FEM 14129	Industrial	1	<input type="checkbox"/>	1/1	MID	COM	105	ug/m^3-LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	Source Oriented & Highest Concentration	
Lead (TSP) - LC FRM/FEM 14129	Industrial	2	<input type="checkbox"/>	1/3	MID	COM	105	ug/m^3-LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	QA Collocated	
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/1	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other

Sample Baro Pressure 68108 Industrial 2  1/3 N/A COM 059 mm (Hg) 780 Instrumental QA Collocated

**Herculaneum, Dunklin High School**

**AQS Site Number 29-099-9002**

1 Black Cat Dr., Herculaneum, MO, 63048

**Latitude:** 38.267222 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.37833 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 445

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		Industrial	1	<input type="checkbox"/>	1/3	NBR	COM	105	ug/m^3-LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	Source Oriented & Population Exposure
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other

**Herculaneum, North Cross**

**AQS Site Number 29-099-0023**

North Cross, Herculaneum, MO 63048

**Latitude:** 38.263378 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.381122 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 463

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		Industrial	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	Source Oriented & Population Exposure

Sample Baro Pressure 68108 Industrial 1  1/6 N/A COM 059 mm (Hg) 780 Instrumental SPM-Other

**Herculaneum, Sherman**

**AQS Site Number 29-099-9004**

460 Sherman St., Herculaneum, MO, 63048

**Latitude:** 38.2717 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.376520 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 462

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		Industrial	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	Source Oriented
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other

# Environmental Services Program (ESP)

*Alba*

AQS Site Number **29-097-0004**

20400 Millwood Rd., Alba, MO 64755

**Latitude:** 37.2385      **AQCR:** 139      SW Missouri

**Longitude:** -94.42468      **MSA:** 3710      Joplin, MO

**Elevation (ft):** 965

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Max Ozone Concentration & Population Exposure
Ozone	44201	SLAMS	2	<input checked="" type="checkbox"/>	1	NBR	BACK-UP	007	ppm	047	Ultraviolet Photometric	-

*Arnold West*

AQS Site Number **29-099-0019**

1709 Lonedell Dr., Arnold, MO 63010

**Latitude:** 38.448581      **AQCR:** 070      Metropolitan St. Louis

**Longitude:** -90.398436      **MSA:** 7040      St. Louis, MO-IL

**Elevation (ft):** 636

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Acceptable PM2.5 AQI/SPEC	88502	SPEC	6	<input type="checkbox"/>	1/3	NBR	RES	105	ug/m^3-LC	810	METONE SASS	Population Exposure
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS- Gravimetric 1405- DF	Population Exposure

Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Population Exposure
Ozone	44201	SLAMS	2	<input checked="" type="checkbox"/>	1	NBR	BACK-UP	007	ppm	047	Ultraviolet Photometric	-
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (10m Tower)

Wind Speed - Resultant 61103 SPM 1  1 N/A MET 012 mph 067 Instrumental: RM SPM-Other  
 Young Model (10m Tower)  
 05103

**Bill's Creek** **AQS Site Number 29-179-0001**

0.75 mile S. of 3229 County Rd., Boss, MO 65440

**Latitude:** 37.53467 **AQCR:** 138 SE Missouri  
**Longitude:** -91.14857 **MSA:** 0000 Not in a MSA  
**Elevation (ft):** 996

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	803	Off-Site Avg Temperature	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		SLAMS	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	803	Off-Site Avg Pressure	SPM-Other

**Blair Street** **AQS Site Number 29-510-0085**

3247 Blair Street, St. Louis, MO 63107

**Latitude:** 38.656449 **AQCR:** 070 Metropolitan St. Louis  
**Longitude:** -90.198548 **MSA:** 7040 St. Louis, MO-IL  
**Elevation (ft):** 450

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Acceptable PM2.5 AQI/SPEC	88502	NCORE	6	<input type="checkbox"/>	1/3	NBR	RES	105	ug/m^3-LC	810	METONE SASS	Population Exposure
Acceptable PMCoarse - LC	86502	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure

Ambient Temperature	68105	SLAMS	1	<input type="checkbox"/>	1/1	N/A	COM	017	deg C	145	R&P 2025 Sequential w/VSCC	SPM-Other
Ambient Temperature	68105	SLAMS	2	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	145	R&P 2025 Sequential w/VSCC	QA Collocated
Ambient Temperature	68105	SLAMS	3	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	127	Lo-Vol R&P 2025 Sequential	SPM-Other
Ambient Temperature	68105	SLAMS	4	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	127	Lo-Vol R&P 2025 Sequential	QA Collocated
Ambient Temperature	68105	SLAMS	7	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Antimony	85102	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m <sup>3</sup> -LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Arsenic PM10 LC	85103	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m <sup>3</sup> -LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Barium PM10 LC	85107	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m <sup>3</sup> -LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Baro Pressure	64101	SLAMS	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Black Carbon PM2.5 STP	84313	SLAMS	1	<input type="checkbox"/>	1	NBR	RES	001	ug/m <sup>3</sup>	894	Magee Scientific TAPI M633 Aethalometer	Population Exposure
Bromine PM10 LC	85109	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m <sup>3</sup> -LC	820	Cooper Environmental Service Model Xact 620	SPM-Other

Cadmium PM10 LC	85110	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Calcium PM10 LC	85111	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Carbon Monoxide	42101	NCORE	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	055	Gas Filter Corr Thermo Electron	Population Exposure
Chromium PM10 LC	85112	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Cobalt PM10 LC	85113	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Copper PM10 LC	85114	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
EC CSN Unadj PM2.5 LC TOT	88307	SLAMS	1	<input type="checkbox"/>	1	NBR	RES	105	ug/m^3-LC	867	Sunset Labs	Population Exposure
Indoor Temperature	62107	SLAMS	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	Other (Large Shelter)
Iron PM10 LC	85126	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Lead (TSP) - LC FRM/FEM	14129	NCORE	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Population Exposure
Lead PM10 LC	85128	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other

Manganese PM10 LC	85132	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Mercury PM10 LC	85142	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Nickel PM10 LC	85136	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Nitric Oxide	42601	NCORE	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	599	Teledyne API 200 EU/501	Population Exposure
Nitrogen Dioxide	42602	SPM	2	<input type="checkbox"/>	1	NBR	COM	008	ppb	600	Teledyne API T200UP Photolytic	Population Exposure
OC CSN Unadj PM2.5 LC TOT	88305	SLAMS	1	<input type="checkbox"/>	1	NBR	RES	105	ug/m^3-LC	867	Sunset Labs	Population Exposure
Optical EC PM2.5 LC TOT	88316	SLAMS	1	<input type="checkbox"/>	1	NBR	RES	105	ug/m^3-LC	895	Sunset Lab	Population Exposure
Outdoor Temperature	62101	NCORE	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other
Ozone	44201	NCORE	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Population Exposure
Ozone	44201	NCORE	2	<input checked="" type="checkbox"/>	1	NBR	BACK-UP	007	ppm	047	Ultraviolet Photometric	-
PM10 - LC	85101	SLAMS	1	<input type="checkbox"/>	1/3	NBR	COM	105	ug/m^3-LC	127	Lo-Vol R&P 2025 Sequential	Population Exposure

PM10 - LC	85101	SLAMS	2	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	127	Lo-Vol R&P 2025 Sequential	QA Collocated
PM10 - LC	85101	SLAMS	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS- Gravimetric 1405- DF	Population Exposure
PM10 - Total STP	81102	SLAMS	1	<input type="checkbox"/>	1/3	NBR	COM	001	ug/m^3	127	Lo-Vol R&P 2025 Sequential	Population Exposure
PM10 - Total STP	81102	SLAMS	2	<input type="checkbox"/>	1/6	NBR	COM	001	ug/m^3	127	Lo-Vol R&P 2025 Sequential	QA Collocated
PM2.5 - LC	88101	NCORE	1	<input type="checkbox"/>	1/1	NBR	COM	105	ug/m^3-LC	145	R&P 2025 Sequential w/VSCC	Population Exposure
PM2.5 - LC	88101	NCORE	2	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	145	R&P 2025 Sequential w/VSCC	QA Collocated
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FDMS- Gravimetric 1405- DF	Population Exposure
PM2.5 Tot Atmospheric	88500	SLAMS	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS- Gravimetric 1405- DF	Population Exposure
PM2.5 Volatile Channel	88503	SLAMS	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS- Gravimetric 1405- DF	Population Exposure
PMCoarse - LC (FRM Diff)	86101	SLAMS	1	<input type="checkbox"/>	1/3	NBR	COM	105	ug/m^3-LC	176	Thermo 2025 Sequential PM10- PM2.5	Population Exposure
PMCoarse - LC (FRM Diff)	86101	SLAMS	2	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	176	Thermo 2025 Sequential PM10- PM2.5	QA Collocated

Potassium PM10 LC	85180	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m <sup>3</sup> -LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Reactive Oxides of N (NOY)	42600	NCORE	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	599	Teledyne API 200 EU/501	Population Exposure
Relative Humidity	62201	NCORE	1	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Sample Baro Pressure	68108	SLAMS	1	<input type="checkbox"/>	1/1	N/A	COM	059	mm (Hg)	145	R&P 2025 Sequential w/VSCC	SPM-Other
Sample Baro Pressure	68108	SLAMS	2	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	145	R&P 2025 Sequential w/VSCC	QA Collocated
Sample Baro Pressure	68108	SLAMS	3	<input type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	127	Lo-Vol R&P 2025 Sequential	SPM-Other
Sample Baro Pressure	68108	SLAMS	4	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	127	Lo-Vol R&P 2025 Sequential	QA Collocated
Sample Baro Pressure	68108	SLAMS	7	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other
Selenium PM10 LC	85154	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m <sup>3</sup> -LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Sigma Theta	61106	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	020	Arithmetic Standard Deviation	SPM-Other (10m Tower)
Silver PM10 LC	85166	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m <sup>3</sup> -LC	820	Cooper Environmental Service Model Xact 620	SPM-Other

Solar Radiation	63301	SLAMS	1	<input type="checkbox"/>	1	N/A	MET	079	W/m^2	011	Instrumental	SPM-Other
Sulfur Dioxide	42401	NCORE	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	600	Ultraviolet Fluorescence API 100 EU	Population Exposure
Sulfur Dioxide Max 5-min Avg	42406	NCORE	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	600	Ultraviolet Fluorescence API 100 EU	Population Exposure
Thallium PM10 LC	85173	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Tin PM10 LC	85160	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Titanium PM10 LC	85161	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Total Carbon PM2.5 LC TOT	88312	SLAMS	1	<input type="checkbox"/>	1	NBR	RES	105	ug/m^3-LC	867	Sunset Labs	Population Exposure
UV Carbon PM2.5 STP	84314	SLAMS	1	<input type="checkbox"/>	1	NBR	RES	001	ug/m^3	894	Magee Scientific TAPI M633 Aethalometer	Population Exposure
Vanadium PM10 LC	85164	SPM	1	<input type="checkbox"/>	1	NBR	RES	108	ng/m^3-LC	820	Cooper Environmental Service Model Xact 620	SPM-Other
Wind Direction - Resultant	61104	NCORE	1	<input type="checkbox"/>	1	N/A	MET	014	deg	065	Instrumental: RM Young Model 05305	SPM-Other (10m Tower)
Wind Speed - Resultant	61103	NCORE	1	<input type="checkbox"/>	1	N/A	MET	012	mph	065	Instrumental: RM Young Model 05305	SPM-Other (10m Tower)

Zinc PM10 LC      85167    SPM    1        1    NBR    RES    108    ng/m^3-LC    820    Cooper Environmental Service Model Xact 620    SPM-Other

**Blue Ridge I-70** **AQS Site Number 29-095-0042**

4018 Harvard Lane, Kansas City, MO 64133

**Latitude:** 39.047911    **AQCR:** 094    Metropolitan Kansas City

**Longitude:** -94.450513    **MSA:** 3760    Kansas City, MO-KS

**Elevation (ft):** 960

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	MIC	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Source Oriented
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Black Carbon PM2.5 STP	84313	SPM	1	<input type="checkbox"/>	1	MIC	COM	001	ug/m^3	894	Magee Scientific TAPI M633 Aethalometer	Source Oriented
Carbon Monoxide	42101	SPM	1	<input type="checkbox"/>	1	MIC	COM	007	ppm	055	Gas Filter Corr Thermo Electron	Source Oriented
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Nitric Oxide	42601	SPM	1	<input type="checkbox"/>	1	MIC	COM	008	ppb	074	Chemiluminescence	Source Oriented
Nitrogen Dioxide	42602	SLAMS	1	<input type="checkbox"/>	1	MIC	COM	008	ppb	074	Chemiluminescence	Source Oriented

Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other (4m Probe Height)
Outdoor Temperature	62101	SPM	2	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other (10m Probe Height)
Outdoor Temperature	62101	SPM	3	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other (2m Probe Height)
Oxides of Nitrogen	42603	SPM	1	<input type="checkbox"/>	1	MIC	COM	008	ppb	074	Chemiluminescence	Source Oriented
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	MIC	COM	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric DF	Source Oriented 1405-
PM2.5 - LC	88101	SPM	4	<input type="checkbox"/>	1	MIC	COM	105	ug/m <sup>3</sup> -LC	182	FDMS-Gravimetric DF	Source Oriented 1405-
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	MIC	AQI	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric DF	Source Oriented 1405-
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	MIC	AQI	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric DF	Source Oriented 1405-
Precipitation	65102	SPM	1	<input type="checkbox"/>	1	N/A	MET	021	inches	011	Bucket	SPM-Other
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Sigma Theta	61106	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	020	Arithmetic Standard Deviation	SPM-Other (10m Tower)

Solar Radiation	63301	SPM	1	<input type="checkbox"/>	1	N/A	MET	079	W/m^2	011	Instrumental	SPM-Other
Temperature Difference	62106	SPM	1	<input type="checkbox"/>	1	N/A	MET	116	Temp Diff deg C	041	Instrumental: Elect or Mach Avg Lev 2-Lev1	SPM-Other (10m - 2m Probe Height)
UV Carbon PM2.5 STP	84314	SPM	1	<input type="checkbox"/>	1	MIC	COM	001	ug/m^3	894	Magee Scientific TAPI M633 Aethalometer	Source Oriented
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	065	Instrumental: RM Young Model 05305	SPM-Other (10m Tower)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	065	Instrumental: RM Young Model 05305	SPM-Other (10m Tower)

## Bonne Terre

AQS Site Number **29-186-0005**

15797 Highway D, Bonne Terre, MO 63628

**Latitude:** 37.90084      **AQCR:** 138      SE Missouri

**Longitude:** -90.42388      **MSA:** 0000      Not in a MSA

**Elevation (ft):** 840

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Acceptable PM2.5 AQI/SPEC	88502	SPEC	5	<input type="checkbox"/>	1/6	REG	RES	105	ug/m^3-LC	810	METONE SASS	Upwind background
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	REG	COM	007	ppm	047	Ultraviolet Photometric	Regional Transport

Solar Radiation	63301	SPM	1	<input type="checkbox"/>	1	N/A	MET	079	W/m^2	011	Instrumental	SPM-Other
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)

**Branch Street**

**AQS Site Number 29-510-0093**

100 Branch St., St. Louis, MO 63102

**Latitude:** 38.65643 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.18977 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 422

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	MID	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Source Oriented
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	MID	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Source Oriented

PM10 - Total STP	81102	SLAMS	3	<input type="checkbox"/>	1	MID	COM	001	ug/m^3	079	R&P SA246B TEOM	Source Oriented
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	MID	COM	105	ug/m^3-LC	182	FMDS- Gravimetric 1405- DF	Source Oriented
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	MID	AQI	105	ug/m^3-LC	790	FDMS- Gravimetric 1405- DF	Source Oriented
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	MID	AQI	105	ug/m^3-LC	790	FDMS- Gravimetric 1405- DF	Source Oriented
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Sigma Theta	61106	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	020	Arithmetic Standard Deviation	SPM-Other (10m Tower)
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	065	Instrumental: RM Young Model 05305	SPM-Other (10m Tower)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	065	Instrumental: RM Young Model 05305	SPM-Other (10m Tower)

## Branson

AQS Site Number **29-213-0004**

251 SW. Outer Rd., Branson, MO 65616

**Latitude:** 36.70765 **AQCR:** 139 SW Missouri

**Longitude:** -93.22181 **MSA:** 0000 Not in a MSA

**Elevation (ft):** 1052

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>Back POC</i>	<i>-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
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Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Ozone	44201	SPM	1	<input checked="" type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Max Ozone Concentration & Population Exposure
Ozone	44201	SPM	2	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	QA Collocated
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)

**Buick NE** **AQS Site Number 29-093-0034**

346 Power Lane, Bixby West, MO 65439

**Latitude:** 37.65212      **AQCR:** 138      SE Missouri

**Longitude:** -91.11653      **MSA:** 0000      Not in a MSA

**Elevation (ft):** 1458

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Ambient Temperature	68105	SPM	2	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	QA Collocated
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Lead (TSP) - LC FRM/FEM	14129	SLAMS	1	<input type="checkbox"/>	1/6	MID	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented & Highest Concentration

Lead (TSP) - LC FRM/FEM 14129	SLAMS	2	<input type="checkbox"/>	1/6	MID	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	QA Collocated	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other
Sample Baro Pressure	68108	SPM	2	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	QA Collocated
Sulfur Dioxide	42401	SPM	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	Source Oriented
Sulfur Dioxide Max 5-min Avg	42406	SPM	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	Source Oriented
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (6 meters)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (6 meters)

## Carthage

AQS Site Number **29-097-0003**

530 Juniper, Carthage, MO 64836

**Latitude:** 37.19822 **AQCR:** 139 SW Missouri

**Longitude:** -94.31702 **MSA:** 3710 Joplin, MO

**Elevation (ft):** 986

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>Back-POC</i>	<i>Up-Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>	
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other

PM10 - Total STP	81102	SLAMS	3	<input type="checkbox"/>	1	MID	COM	001	ug/m^3	079	R&P SA246B TEOM	Source Oriented
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)

## El Dorado Springs

AQS Site Number **29-039-0001**

Highway 97 & Barnes Road, El Dorado Springs, MO 64744

**Latitude:** 37.70097 **AQCR:** 139 SW Missouri

**Longitude:** -94.03474 **MSA:** 0000 Not in a MSA

**Elevation (ft):** 965

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>Back POC</i>	<i>-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Acceptable PMCoarse - LC	86502	SPM	2	<input type="checkbox"/>	1	REG	COM	105	ug/m^3-LC	790	FDMS- Gravimetric 1405- DF	Regional Transport
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	REG	COM	007	ppm	047	Ultraviolet Photometric	Regional Transport

PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	REG	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Regional Transport
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	REG	COM	105	ug/m^3-LC	182	FMDS-Gravimetric 1405-DF	Regional Transport
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	REG	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Regional Transport
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	REG	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Regional Transport
Relative Humidity	62201	SPM	2	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)

**Farrar**

**AQS Site Number 29-157-0001**

County Rd. 342, Farrar, MO 63746

**Latitude:** 37.70264 **AQCR:** 138 SE Missouri

**Longitude:** -89.698640 **MSA:** 0000 Not in a MSA

**Elevation (ft):** 497

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other

Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Max Ozone Concentration & Extreme Downwind
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)

### Fellows Lake

AQS Site Number **29-077-0042**

4208 E. Farm Rd. 66, Springfield, MO 65803

**Latitude:** 37.319444 **AQCR:** 139 SW Missouri

**Longitude:** -93.204444 **MSA:** 7920 Springfield, MO

**Elevation (ft):** 1346

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	URB	COM	007	ppm	047	Ultraviolet Photometric	Max Ozone Concentration & Population Exposure

### Finger Lakes

AQS Site Number **29-019-0011**

1505 E. Peabody Road, Columbia, MO 65202

**Latitude:** 39.07803 **AQCR:** 137 Northern Missouri

**Longitude:** -92.31632 **MSA:** 1740 Columbia, MO

**Elevation (ft):** 726

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other

Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Max Ozone Concentration & Population Exposure
Ozone	44201	SLAMS	2	<input checked="" type="checkbox"/>	1	NBR	BACK-UP	007	ppm	047	Ultraviolet Photometric	-

## Fletcher

AQS Site Number **29-179-0002**

Forest Rd. 2236, Westfork, MO 64498

**Latitude:** 37.46889      **AQCR:** 138      SE Missouri

**Longitude:** -91.08847      **MSA:** 0000      Not in a MSA

**Elevation (ft):** 1256

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	803	Off-Site Avg Temperature	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		SLAMS	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	803	Off-Site Avg Pressure	SPM-Other

## Foley

AQS Site Number **29-113-0003**

#7 Wild Horse, Foley, MO 63347

**Latitude:** 39.0447      **AQCR:** 137      Northern Missouri

**Longitude:** -90.8647      **MSA:** 7040      St. Louis, MO-IL

**Elevation (ft):** 715

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other

Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Extreme Downwind
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)

**Forest City, Exide Levee** **AQS Site Number 29-087-0008**

300 S. Washington St., Oregon MO, 64473

**Latitude:** 40.027222 **AQCR:** 137 Northern Missouri

**Longitude:** -95.235833 **MSA:** 0000 Not in a MSA

**Elevation (ft):** 904

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Ambient Temperature	68105	SPM	3	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	803	Off-Site Avg Temperature	SPM-Other
Lead (TSP) - LC FRM/FEM	14129	SPM	1	<input type="checkbox"/>	1/6	MID	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented
Sample Baro Pressure	68108	SPM	3	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	803	Off-Site Avg Pressure	SPM-Other

**Forest Park** **AQS Site Number 29-510-0094**

5600 Clayton Avenue, St. Louis, MO 63110

**Latitude:** 38.631057 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.281144 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 531

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
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Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	MIC	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Source Oriented
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Black Carbon PM2.5 STP	84313	SPM	1	<input type="checkbox"/>	1	MIC	COM	001	ug/m^3	894	Magee Scientific TAPI M633 Aethalometer	Source Oriented
Carbon Monoxide	42101	SPM	1	<input type="checkbox"/>	1	MIC	COM	007	ppm	055	Gas Filter Corr Thermo Electron	Source Oriented
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Nitric Oxide	42601	SPM	1	<input type="checkbox"/>	1	MIC	COM	008	ppb	074	Chemiluminescence	Source Oriented
Nitrogen Dioxide	42602	SLAMS	1	<input type="checkbox"/>	1	MIC	COM	008	ppb	074	Chemiluminescence	Source Oriented
Nitrogen Dioxide	42602	SPM	2	<input type="checkbox"/>	1	MIC	COM	008	ppb	600	Teledyne API T200UP Photolytic	Source Oriented
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other (4m Probe Height)
Outdoor Temperature	62101	SPM	2	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other (10m Probe Height)
Outdoor Temperature	62101	SPM	3	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other (2m Probe Height)

Oxides of Nitrogen	42603	SPM	1	<input type="checkbox"/>	1	MIC	COM	008	ppb	074	Chemiluminescence	Source Oriented
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	MIC	COM	105	ug/m^3-LC	790	FDMS-Gravimetric DF	Source Oriented 1405-
PM2.5 - LC	88101	SPM	4	<input type="checkbox"/>	1	MIC	COM	105	ug/m^3-LC	182	FMDS-Gravimetric DF	Source Oriented 1405-
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	MIC	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric DF	Source Oriented 1405-
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	MIC	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric DF	Source Oriented 1405-
Precipitation	65102	SPM	1	<input type="checkbox"/>	1	N/A	MET	021	inches	011	Bucket	SPM-Other
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Sigma Theta	61106	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	020	Arithmetic Standard Deviation	SPM-Other (10m Tower)
Temperature Difference	62106	SPM	1	<input type="checkbox"/>	1	N/A	MET	116	Temp Diff deg C	041	Instrumental: Elect or Mach Avg Lev 2-Lev1	SPM-Other (10m - 2m Probe Height)
UV Carbon PM2.5 STP	84314	SPM	1	<input type="checkbox"/>	1	MIC	COM	001	ug/m^3	894	Magee Scientific TAPI M633 Aethalometer	Source Oriented
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	065	Instrumental: RM Young Model 05305	SPM-Other (10m Tower)

Wind Speed - Resultant 61103 SPM 1  1 N/A MET 012 mph 065 Instrumental: RM SPM-Other  
 Young Model (10m Tower)  
 05305

**Front Street**

**AQS Site Number 29-095-0018**

1331 N. Jackson, Kansas City, MO 64120

**Latitude:** 39.13198 **AQCR:** 094 Metropolitan Kansas City

**Longitude:** -94.53128 **MSA:** 3760 Kansas City, MO-KS

**Elevation (ft):** 728

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
PM10 - Total STP	81102	SLAMS	3	<input type="checkbox"/>	1	NBR	COM	001	ug/m^3	079	R&P SA246B TEOM	Highest Concentration & Population Exposure

**Glover**

**AQS Site Number 29-093-0033**

Highway 49, approx. 0.4m South Highways 21/49/72 Intersection, Glover, 63620

**Latitude:** 37.48964 **AQCR:** 138 SE Missouri

**Longitude:** -90.69247 **MSA:** 0000 Not in a MSA

**Elevation (ft):** 881

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	803	Off-Site Avg Temperature	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		SLAMS	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	803	Off-Site Avg Pressure	SPM-Other

**Herculaneum, Dunklin High School****AQS Site Number 29-099-0005**

1 Black Cat Dr., Herculaneum, MO, 63048

**Latitude:** 38.267222 **AQCR:** 070 Metropolitan St. Louis**Longitude:** -90.37833 **MSA:** 7040 St. Louis, MO-IL**Elevation (ft):** 445

<b>Pollutant</b>	<b>AQS Code</b>	<b>Monitor- Type</b>	<b>POC</b>	<b>Back -Up</b>	<b>Freq</b>	<b>Scale</b>	<b>State- Obj</b>	<b>Unit- Code</b>	<b>Unit</b>	<b>Method- Code</b>	<b>Method</b>	<b>Monitor- Objective</b>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		SLAMS	1	<input type="checkbox"/>	1/3	NBR	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented & Population Exposure
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other

**Herculaneum, Mott Street****AQS Site Number 29-099-0027**

Mott Street, Herculaneum, MO, 63048

**Latitude:** 38.263394 **AQCR:** 070 Metropolitan St. Louis**Longitude:** -90.379667 **MSA:** 7040 St. Louis, MO-IL**Elevation (ft):** 468

<b>Pollutant</b>	<b>AQS Code</b>	<b>Monitor- Type</b>	<b>POC</b>	<b>Back -Up</b>	<b>Freq</b>	<b>Scale</b>	<b>State- Obj</b>	<b>Unit- Code</b>	<b>Unit</b>	<b>Method- Code</b>	<b>Method</b>	<b>Monitor- Objective</b>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/1	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Ambient Temperature	68105	SPM	2	<input type="checkbox"/>	1/2	N/A	COM	017	deg C	780	Instrumental	QA Collocated
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other

Lead (TSP) - LC FRM/FEM 14129	SLAMS	1	<input type="checkbox"/>	1/1	MID	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented & Highest Concentration	
Lead (TSP) - LC FRM/FEM 14129	SLAMS	2	<input type="checkbox"/>	1/2	MID	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	QA Collocated	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/1	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other
Sample Baro Pressure	68108	SPM	2	<input type="checkbox"/>	1/2	N/A	COM	059	mm (Hg)	780	Instrumental	QA Collocated
Sulfur Dioxide	42401	SLAMS	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	Source Oriented & Highest Concentration
Sulfur Dioxide Max 5-min Avg	42406	SPM	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	Source Oriented & Highest Concentration
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)

**Herculaneum, Sherman** **AQS Site Number 29-099-0013**

460 Sherman St., Herculaneum, MO, 63048

**Latitude:** 38.27171 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.376520 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 462

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>Back-POC</i>	<i>Up-Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
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Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	780	Instrumental	SPM-Other
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Lead (TSP) - LC FRM/FEM 14129	SLAMS	1	<input type="checkbox"/>	1/3	NBR	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	780	Instrumental SPM-Other

### Hillcrest High School

AQS Site Number **29-077-0036**

3319 N. Grant, Springfield, MO 65803

**Latitude:** 37.256069 **AQCR:** 139 SW Missouri  
**Longitude:** -93.299692 **MSA:** 7920 Springfield, MO  
**Elevation (ft):** 1321

Pollutant	AQS Code	Monitor-Type	POC	Back-Up	Freq	Scale	State-Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Objective
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	URB	COM	007	ppm	047	Ultraviolet Photometric	Population Exposure

### Ladue

AQS Site Number **29-189-3001**

73 Hunter Ave., Ladue, MO 63124

**Latitude:** 38.65021 **AQCR:** 070 Metropolitan St. Louis  
**Longitude:** -90.35036 **MSA:** 7040 St. Louis, MO-IL  
**Elevation (ft):** 528

Pollutant	AQS Code	Monitor-Type	POC	Back-Up	Freq	Scale	State-Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Objective
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other

Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric DF	Population 1405-Exposure
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FMDS-Gravimetric DF	Population 1405-Exposure
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric DF	Population 1405-Exposure
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric DF	Population 1405-Exposure
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (10m Tower)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (10m Tower)

Highway 33 & County Home Rd., Liberty, MO 64068

**Latitude:** 39.303056 **AQCR:** 094 Metropolitan Kansas City

**Longitude:** -94.376389 **MSA:** 3760 Kansas City, MO-KS

**Elevation (ft):** 930

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Acceptable PM2.5 AQI/SPEC	88502	SPEC	5	<input type="checkbox"/>	1/3	NBR	RES	105	ug/m^3-LC	810	METONE SASS	Population Exposure
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS- Gravimetric 1405- DF	Population Exposure
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Population Exposure
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS- Gravimetric 1405- DF	Population Exposure
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FMDS- Gravimetric 1405- DF	Population Exposure

PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Solar Radiation	63301	SPM	1	<input type="checkbox"/>	1	N/A	MET	079	W/m^2	011	Instrumental	SPM-Other
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)

## Margaretta

AQS Site Number **29-510-0086**

4520 Margaretta, St. Louis, MO 63105

**Latitude:** 38.673172     **AQCR:** 070     Metropolitan St. Louis

**Longitude:** -90.239086     **MSA:** 7040     St. Louis, MO-IL

**Elevation (ft):** 514

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Nitric Oxide	42601	SPM	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	074	Chemiluminescence	Population Exposure

Nitrogen Dioxide	42602	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	074	Chemiluminescence	Population Exposure
Oxides of Nitrogen	42603	SPM	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	074	Chemiluminescence	Population Exposure
PM10 - Total STP	81102	SLAMS	3	<input type="checkbox"/>	1	MID	COM	001	ug/m^3	079	R&P SA246B TEOM	Population Exposure
Sulfur Dioxide	42401	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	060	Pulsed Fluorescent	Population Exposure
Sulfur Dioxide Max 5-min Avg	42406	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	060	Pulsed Fluorescent	Population Exposure

**Mark Twain State Park (\*Proposed for Monitoring)** **AQS Site Number 29-137-0001**

20057 State Park Office Rd., Stoutville, MO 65283

**Latitude:** 39.47510      **AQCR:** 137      Northern Missouri

**Longitude:** -91.78899      **MSA:** 0000      Not in a MSA

**Elevation (ft):** 710

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Nitric Oxide	42601	SPM	1	<input type="checkbox"/>	1	REG	COM	008	ppb	074	Chemiluminescence	General/Background*
Nitrogen Dioxide	42602	SLAMS	1	<input type="checkbox"/>	1	REG	COM	008	ppb	074	Chemiluminescence	General/Background*

Oxides of Nitrogen	42603	SPM	1	<input type="checkbox"/>	1	REG	COM	008	ppb	074	Chemiluminescence	General/Background*
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	REG	COM	007	ppm	047	Ultraviolet Photometric	General/Background
PM10 - Total STP	81102	SPM	3	<input type="checkbox"/>	1	REG	SIP	001	ug/m^3	079	R&P SA246B TEOM	General/Background
Sulfur Dioxide	42401	SPM	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	060	Pulsed Fluorescent	General/Background
Sulfur Dioxide Max 5-min Avg	42406	SPM	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	060	Pulsed Fluorescent	General/Background
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (10m Tower)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (10m Tower)

## Maryland Heights

AQS Site Number **29-189-0014**

13044 Marine Ave., Maryland Heights, MO 63146

**Latitude:** 38.7109      **AQCR:** 070      Metropolitan St. Louis

**Longitude:** -90.4759      **MSA:** 7040      St. Louis, MO-IL

**Elevation (ft):** 633

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other



PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other

## New Bloomfield

AQS Site Number **29-027-0002**

2625 Meadow Lake View, New Bloomfield, MO, 65063

**Latitude:** 38.70608 **AQCR:** 137 Northern Missouri

**Longitude:** -92.09308 **MSA:** 0000 Not in a MSA

**Elevation (ft):** 860

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Max Ozone Concentration & Population Exposure

## Oates

AQS Site Number **29-179-0034**

13155 Highway KK, Boss, MO 65440

**Latitude:** 37.56485 **AQCR:** 138 SE Missouri

**Longitude:** -91.11423 **MSA:** 0000 Not in a MSA

**Elevation (ft):** 1134

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	803	Off-Site Avg Temperature	SPM-Other

Lead (TSP) - LC FRM/FEM 14129	SLAMS	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	803	Off-Site Avg Pressure	SPM-Other

## Orchard Farm

AQS Site Number **29-183-1004**

2165 Highway V, St. Charles, MO 63301

**Latitude:** 38.8994      **AQCR:** 070      Metropolitan St. Louis

**Longitude:** -90.44917      **MSA:** 7040      St. Louis, MO-IL

**Elevation (ft):** 441

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	URB	COM	007	ppm	047	Ultraviolet Photometric	Extreme Downwind

## Pacific

AQS Site Number **29-189-0005**

18701 Old Highway 66, Pacific, MO 63039

**Latitude:** 38.4902      **AQCR:** 070      Metropolitan St. Louis

**Longitude:** -90.7052      **MSA:** 7040      St. Louis, MO-IL

**Elevation (ft):** 524

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other

Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Population Exposure
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)

## Pevely

AQS Site Number **29-099-0009**

500 Dow Industrial Dr., Pevely, MO 63070

**Latitude:** 38.2861      **AQCR:** 070      Metropolitan St. Louis

**Longitude:** -90.38094      **MSA:** 7040      St. Louis, MO-IL

**Elevation (ft):** 409

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Lead (TSP) - LC FRM/FEM	14129	SLAMS	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m <sup>3</sup> -LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other

## Pevely North

AQS Site Number **29-099-0026**

Tiarre at the Abbey, Station 150N, Christine Drive, Pevely, MO 63070

**Latitude:** 38.296      **AQCR:** 070      Metropolitan St. Louis

**Longitude:** -90.393      **MSA:** 7040      St. Louis, MO-IL

**Elevation (ft):** 582

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
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Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		SLAMS	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other

**Richards Gebaur - South**

**AQS Site Number 29-037-0003**

1802 E. 203rd Street, Belton, MO, 64012

**Latitude:** 38.75976      **AQCR:** 094      Metropolitan Kansas City

**Longitude:** -94.57997      **MSA:** 3760      Kansas City, MO-KS

**Elevation (ft):** 1031

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Population Exposure

PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FMDS-Gravimetric 1405-DF	Population Exposure
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
Relative Humidity	62201	SPM	2	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (10m Tower)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (10m Tower)

**Rider Trail, I-70 (In the process: Information to be updated) AQS Site Number 29-510-0095**

Rider Trail (Address, Latitude, Longitude, Elevation to be confirmed)

**Latitude:** 38.752463 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.449082 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 500

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other

Nitric Oxide	42601	SPM	1	<input type="checkbox"/>	1	MIC	COM	008	ppb	074	Chemiluminescence	Source Oriented
Nitrogen Dioxide	42602	SLAMS	1	<input type="checkbox"/>	1	MIC	COM	008	ppb	074	Chemiluminescence	Source Oriented
Outdoor Temperature	62101	SPM	2	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other (10m Probe Height)
Outdoor Temperature	62101	SPM	3	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other (2m Probe Height)
Oxides of Nitrogen	42603	SPM	1	<input type="checkbox"/>	1	MIC	COM	008	ppb	074	Chemiluminescence	Source Oriented
Sigma Theta	61106	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	020	Arithmetic Standard Deviation	SPM-Other (10m Tower)
Temperature Difference	62106	SPM	1	<input type="checkbox"/>	1	N/A	MET	116	Temp Diff deg C	041	Instrumental: Elect or Mach Avg Lev 2-Lev1	SPM-Other (10m - 2m Probe Height)
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	065	Instrumental: RM Young Model 05305	SPM-Other (10m Tower)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	065	Instrumental: RM Young Model 05305	SPM-Other (10m Tower)

**Rocky Creek****AQS Site Number 29-047-0006**

13131 Highway 169 NE., Smithville, MO 64089

**Latitude:** 39.33188 **AQCR:** 094 Metropolitan Kansas City**Longitude:** -94.5806 **MSA:** 3760 Kansas City, MO-KS**Elevation (ft):** 993

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Population Exposure

**Savannah****AQS Site Number 29-003-0001**

11796 Highway 71, Savannah, MO 64485

**Latitude:** 39.9544 **AQCR:** 137 Northern Missouri**Longitude:** -94.849 **MSA:** 7000 St. Joseph, MO**Elevation (ft):** 1120

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	Population Exposure
Ozone	44201	SLAMS	2	<input checked="" type="checkbox"/>	1	NBR	BACK-UP	007	ppm	047	Ultraviolet Photometric	-

8227 South Broadway, St. Louis, MO 63111

**Latitude:** 38.5425      **AQCR:** 070      Metropolitan St. Louis

**Longitude:** -90.263611      **MSA:** 7040      St. Louis, MO-IL

**Elevation (ft):** 452

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
Baro Pressure	64101	SLAMS	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure

Relative Humidity      62201      SPM      1            1      N/A      MET      019      %humidity      020      Instrumental      SPM-Other

**South Charleston** **AQS Site Number 29-077-0026**

5012 S. Charleston, Springfield, MO 65804

**Latitude:**      37.122561      **AQCR:**      139      SW Missouri  
**Longitude:**      -93.263161      **MSA:**      7920      Springfield, MO  
**Elevation (ft):**      1234

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Sulfur Dioxide	42401	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	060	Pulsed Fluorescent	Source Oriented
Sulfur Dioxide Max 5-min Avg	42406	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	060	Pulsed Fluorescent	Source Oriented

**St. Joe State Park** **AQS Site Number 29-187-0007**

2800 Pimville Rd., Park Hills, MO 63601

**Latitude:**      37.81413      **AQCR:**      138      SE Missouri  
**Longitude:**      -90.50738      **MSA:**      0000      Not in a MSA  
**Elevation (ft):**      937

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	803	Off-Site Avg Temperature	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		SPM	1	<input type="checkbox"/>	1/3	NBR	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Population Exposure

Sample Baro Pressure 68108 SPM 1  1/3 N/A COM 059 mm (Hg) 803 Off-Site Avg Pressure SPM-Other

**St. Joseph Pump Station**

**AQS Site Number 29-021-0005**

S. Highway 759, St. Joseph, MO 64501

**Latitude:** 39.741667 **AQCR:** 094 Metropolitan Kansas City

**Longitude:** -94.858333 **MSA:** 7000 St. Joseph, MO

**Elevation (ft):** 845

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
Acceptable PMCoarse - LC	86502	SPM	2	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	QA Collocated
Ambient Temperature	68105	SPM	3	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	127	Lo-Vol R&P 2025 Sequential	SPM-Other
Ambient Temperature	68105	SPM	4	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	127	Lo-Vol R&P 2025 Sequential	QA Collocated
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Baro Pressure	64101	SPM	2	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other

Outdoor Temperature	62101	SPM	2	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	QA Collocated
PM10 - LC	85101	SPM	1	<input type="checkbox"/>	1/3	NBR	COM	105	ug/m^3-LC	127	Lo-Vol R&P 2025 Sequential	Population Exposure
PM10 - LC	85101	SPM	2	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	127	Lo-Vol R&P 2025 Sequential	QA Collocated
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM10 - LC	85101	SPM	6	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	QA Collocated
PM10 - Total STP	81102	SLAMS	1	<input type="checkbox"/>	1/3	NBR	COM	001	ug/m^3	127	Lo-Vol R&P 2025 Sequential	Population Exposure
PM10 - Total STP	81102	SLAMS	2	<input type="checkbox"/>	1/6	NBR	COM	001	ug/m^3	127	Lo-Vol R&P 2025 Sequential	QA Collocated
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FMDS-Gravimetric 1405-DF	Population Exposure
PM2.5 - LC	88101	SLAMS	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FMDS-Gravimetric 1405-DF	QA Collocated
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 Tot Atmospheric	88500	SPM	2	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	QA Collocated

PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 Volatile Channel	88503	SPM	2	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	QA Collocated
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Relative Humidity	62201	SPM	2	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	QA Collocated
Sample Baro Pressure	68108	SPM	3	<input type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	127	Lo-Vol R&P 2025 Sequential	SPM-Other
Sample Baro Pressure	68108	SPM	4	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	127	Lo-Vol R&P 2025 Sequential	QA Collocated
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	N/A	MET	012	mph	067	Instrumental: RM Young Model 05103	SPM-Other (5.5 meters)

**Trimble** **AQS Site Number 29-049-0001**

7536 SW. O Highway, Trimble, MO 64492

**Latitude:** 39.5306      **AQCR:** 137      Northern Missouri  
**Longitude:** -94.556      **MSA:** 3760      Kansas City, MO-KS  
**Elevation (ft):** 955

<u>Pollutant</u>	<u>AQS Code</u>	<u>Monitor-Type</u>	<u>Back-POC</u>	<u>Up</u>	<u>Freq</u>	<u>Scale</u>	<u>State-Obj</u>	<u>Unit-Code</u>	<u>Unit</u>	<u>Method-Code</u>	<u>Method</u>	<u>Monitor-Objective</u>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other

Ozone 44201 SLAMS 1  1 NBR COM 007 ppm 047 Ultraviolet Photometric Max Ozone Concentration

**Troost**

**AQS Site Number 29-095-0034**

724 Troost (Rear), Kansas City, MO 64106

**Latitude:** 39.104722 **AQCR:** 094 Metropolitan Kansas City

**Longitude:** -94.570556 **MSA:** 3760 Kansas City, MO-KS

**Elevation (ft):** 971

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	145	R&P 2025 Sequential w/VSCC	SPM-Other
Ambient Temperature	68105	SPM	3	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	127	Lo-Vol R&P 2025 Sequential	SPM-Other
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	N/A	MET	059	mm (Hg)	014	Instrumental	SPM-Other
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Nitric Oxide	42601	SPM	1	<input type="checkbox"/>	1	URB	COM	008	ppb	074	Chemiluminescence	Population Exposure
Nitrogen Dioxide	42602	SLAMS	1	<input type="checkbox"/>	1	URB	COM	008	ppb	074	Chemiluminescence	Population Exposure

Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other
Oxides of Nitrogen	42603	SPM	1	<input type="checkbox"/>	1	URB	COM	008	ppb	074	Chemiluminescence	Population Exposure
PM10 - LC	85101	SPM	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	127	Lo-Vol R&P 2025 Sequential	Population Exposure
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM10 - Total STP	81102	SLAMS	1	<input type="checkbox"/>	1/6	NBR	COM	001	ug/m^3	127	Lo-Vol R&P 2025 Sequential	Population Exposure
PM2.5 - LC	88101	SLAMS	1	<input type="checkbox"/>	1/3	NBR	COM	105	ug/m^3-LC	145	R&P 2025 Sequential w/VSCC	QA Collocated
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	Population Exposure
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	145	R&P 2025 Sequential w/VSCC	SPM-Other

Sample Baro Pressure	68108	SPM	3	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	127	Lo-Vol R&P 2025 Sequential	SPM-Other
Sulfur Dioxide	42401	SLAMS	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	Source Oriented
Sulfur Dioxide Max 5-min Avg	42406	SLAMS	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	Source Oriented

### Ursuline North

AQS Site Number **29-099-0025**

210 Glennon Heights Rd., Crystal City, MO 63019

**Latitude:** 38.243      **AQCR:** 070      Metropolitan St. Louis

**Longitude:** -90.37372      **MSA:** 7040      St. Louis, MO-IL

**Elevation (ft):** 578

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	SPM-Other
Lead (TSP) - LC FRM/FEM 14129		SLAMS	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry	Source Oriented & Upwind Background
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	SPM-Other

### Watkins Mill State Park

AQS Site Number **29-047-0003**

Watkins Mill Road, Lawson, MO 64062

**Latitude:** 39.407419      **AQCR:** 094      Metropolitan Kansas City

**Longitude:** -94.265142      **MSA:** 3760      Kansas City, MO-KS

**Elevation (ft):** 1009

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Back -Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State- Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Objective</i>
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Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	URB	COM	007	ppm	047	Ultraviolet Photometric	Extreme Downwind

**West Alton**

**AQS Site Number 29-183-1002**

General Electric Store, Highway 94, West Alton, MO 63386

**Latitude:** 38.8725      **AQCR:** 070      Metropolitan St. Louis

**Longitude:** -90.226389      **MSA:** 7040      St. Louis, MO-IL

**Elevation (ft):** 425

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Back-Up</i>	<i>Freq</i>	<i>Scale</i>	<i>State-Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Objective</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	SPM-Other
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	040	Electronic Averaging	SPM-Other
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	URB	COM	007	ppm	047	Ultraviolet Photometric	Max Ozone Concentration & Population Exposure
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	N/A	MET	019	%humidity	020	Instrumental	SPM-Other
Solar Radiation	63301	SPM	1	<input type="checkbox"/>	1	N/A	MET	079	W/m^2	011	Instrumental	SPM-Other
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	N/A	MET	014	deg	067	Instrumental: RM Young Model 05103	SPM-Other (10m Tower)

Wind Speed - Resultant    61103    SPM    1        1    N/A    MET    012    mph    067    Instrumental: RM SPM-Other  
Young Model    (10m Tower)  
05103