



Missouri Department of Natural Resources  
Air Pollution Control Program  
2012 Monitoring Network Plan

May 25, 2012

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## SUMMARY OF PROPOSED CHANGES

Missouri's 2012 Monitoring Network Plan proposes to address:

- One new near-roadway nitrogen dioxide (NO<sub>2</sub>) monitoring site in St. Louis,
- Planning for the second near-roadway NO<sub>2</sub> site in St. Louis,
- Planning for one near-roadway NO<sub>2</sub> site in Kansas City,
- Resumption of sulfur dioxide (SO<sub>2</sub>) monitoring at the Mark Twain State Park Site,
- All year ozone monitoring at the Mark Twain State Park Site.

As part of the condition of receiving one-time section 103 Grant funds to implement some of the NO<sub>2</sub> near-roadway monitoring network the department will 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 near-roadway NO<sub>2</sub> site.

The plan also discusses lead monitoring that was discontinued at the Corridon and Webb City ambient air monitoring sites. PM<sub>10</sub> Monitoring was discontinued at the Hall St. site. The location of the Exide Lead monitoring site will be identified. More details concerning these changes are included throughout this Monitoring Network Plan.

Effective on or before October 1, 2011, the State of Missouri assumed daily ambient air monitoring activities formerly conducted by local air pollution control agencies in Springfield, St. Louis County and St. Louis City. The network table in Appendix 1 identifies monitors whose monitoring operations were transferred from the local agencies and are now under the State's responsibility.

### **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 28, 2012:

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) monitoring and the 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  $PM_{2.5}$  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

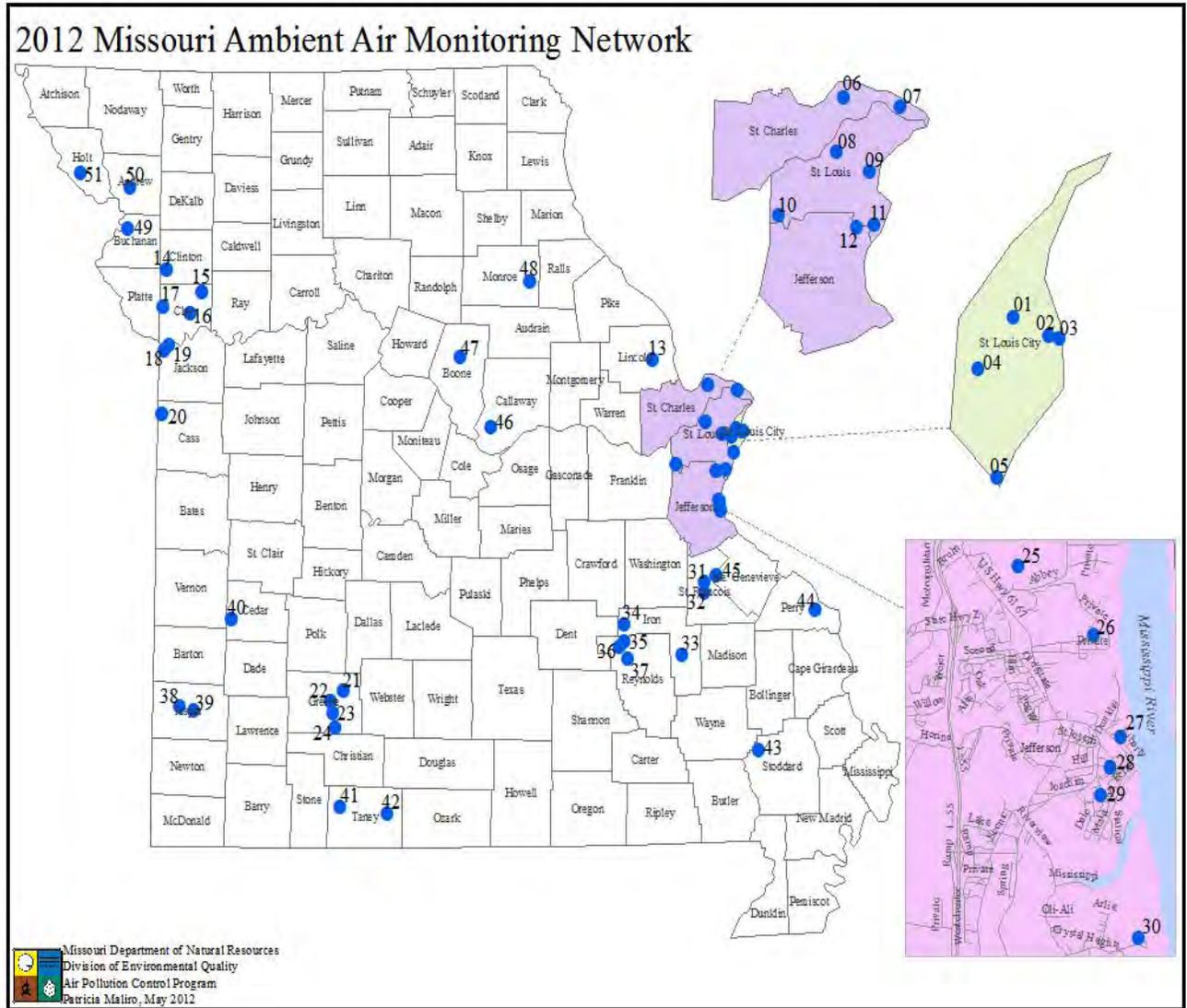
pollutant/scale specific and involve horizontal/vertical placement. Additional details concerning the sites may be found in Appendix 1.

There are only two PM<sub>2.5</sub> monitors in Missouri that are not applicable for comparison to the annual NAAQS - Branch Street and the proposed Forest Park near-roadway monitor. Branch St. is a middle-scale site focused on a group of sources in the industrial riverfront area and is not neighborhood scale. The Forest Park monitor is a special purpose micro-scale site focused on PM<sub>2.5</sub> mobile source impacts adjacent to Interstate I-40/64. 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 is required of 40 CFR Part 58.10 (7).

Changes to the monitoring Network may occur outside the 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.

# CURRENT AMBIENT AIR MONITORING NETWORK

The statewide current monitoring network is shown below in the map and table.



<b>Legend</b>			<b>Springfield Area Cont'</b>			<b>Outstate Area Cont'</b>		
<u>St. Louis Area</u>			<u>Herculaneum Area</u>			<u>Acronym</u>		
Site#	Site Name	Parameter Monitored	Site#	Site Name	Parameter Monitored	Site#	Site Name	Parameter Monitored
01	Margaretta	PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> , NO <sub>x</sub> , IT	24	South	SO <sub>2</sub> , IT	49	St. Joseph	PM <sub>10</sub> , PM <sub>10-LC</sub> , PM <sub>2.5</sub> ,
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>y</sub> , NO, CO, BC, Carbonyls, Hexa	25	Pevely North	Pb		Pump Station	PMCoarse, BP, RH
03	Branch Street	Chromium, PAHs, VOCs, WS, WD, OT, IT, SR, BP, RH, PM <sub>10</sub> , PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse, WS, WD, OT, IT, BP, RH	26	Pevely	Pb	50	Savannah	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> CO, BC, WS, WD, OT, IT, SR, BP, RH, Prec	27	Herculaneum,	Pb	51	Forest City,	Pb-PM <sub>10</sub>
05	South Broadway	PM <sub>10</sub> , PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse IT, BP, RH	28	Herculaneum,	Pb		Exide	
06	Orchard Farm	O <sub>3</sub> , IT	29	Herculaneum,	SO <sub>2</sub> , Pb, WS, WD, IT			
07	West Alton	O <sub>3</sub> , WS, WD, OT, IT, SR	30	Ursuline North	Pb			
08	Maryland Heights	O <sub>3</sub> , WS, WD, OT, IT	<u>Old Lead Belt Area</u>					
09	Ladue	PM <sub>2.5</sub> , WS, WD, OT, IT	Site#	Site Name	Parameter Monitor			
10	Pacific	O <sub>3</sub> , WS, WD, OT, IT	31	Park Hills	Pb			
11	Oakville	PM <sub>10</sub> , WS, WD, IT	32	St. Joe State Park	Pb			
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	<u>New Lead Belt Area</u>					
13	Foley	O <sub>3</sub> , WS, WD, IT	Site#	Site Name	Parameter Monitored			
<u>Kansas City Area</u>			33	Glover	Pb			
Site#	Site Name	Parameter Monitored	34	Buick NE	Pb, SO <sub>2</sub> , WS, WD, IT			
14	Trimble	O <sub>3</sub> , WS, WD, IT	35	Oates	Pb			
15	Watkins Mill	O <sub>3</sub> , IT	36	Bill's Creek	Pb			
16	Liberty	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 SR, BP, RH	37	Fletcher	Pb			
17	Rocky Creek	O <sub>3</sub> , WS, WD, IT	<u>Outstate Area</u>					
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	Site#	Site Name	Parameter Monitored			
19	Front Street	PM <sub>10</sub>	38	Alba	O <sub>3</sub> , IT			
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	39	Carthage	PM <sub>10</sub> , WS, WD, IT			
<u>Springfield Area</u>			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 IMPROVE			
Site#	Site Name	Parameter Monitored	41	Branson	O <sub>3</sub> , WS, WD, IT			
21	Fellows Lake	O <sub>3</sub> , WS, WD, IT	42	Hercules Glades	IMPROVE			
22	Hillcrest H. Sch.	O <sub>3</sub> , IT	43	Mingo	IMPROVE			
23	Missouri State University	PM <sub>10</sub> , PM <sub>10-LC</sub> , PM <sub>2.5</sub> , PMCoarse OT, IT, BP, RH	44	Farrar	O <sub>3</sub> , WS, WD, IT			
			45	Bonne Terre	PM <sub>2.5</sub> (Spec), O <sub>3</sub> , WS, WD, SR, IT			
			46	New Bloomfield	O <sub>3</sub> , WS, WD, IT			
			47	Finger Lakes	O <sub>3</sub> , IT			
			48	Mark Twain State Park	PM <sub>10</sub> , SO <sub>2</sub> , O <sub>3</sub> , WS, WD, IT			

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. Where 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

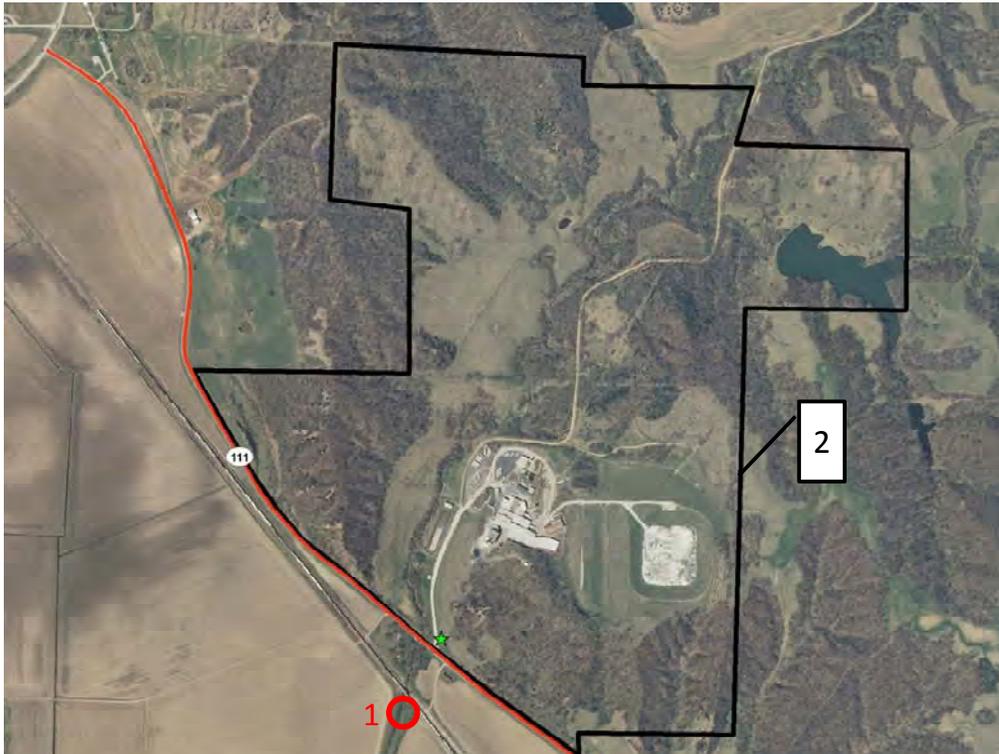
Changes to airborne lead monitoring requirements were published in the Federal Register: December 27, 2010 (Volume 75, Number 247). These new rules require a plan for monitoring lead sources emitting 0.50 tons per year or more, revised from the previous requirement for monitoring sources emitting one 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.

#### 1.1 Forest City, Exide monitoring site.

The 2012 Monitoring Network Plan proposed resumption of lead monitoring at a location near the Exide Secondary Lead Smelter in Forest City MO. At the time that plan was proposed a specific location for this monitor had not been identified since this special purpose monitor is not required by the minimum monitoring requirements of 40 CFR Part 58. After reviewing property ownership records and historical monitoring data the department and EPA Region VII Staff agreed that monitoring should be resumed at the former site AQS# 29-087-0008 Schuylkill Metals-West (also known as the “levee” site). Other historical monitoring sites were located on the smelter property and concerns over whether or not these locations could be considered ambient air consistent with 40 CFR Part 50.1(e) led to the decision in consultation with EPA Region VII staff to resume monitoring at the levee site where historical (July 1996 through March 2000) ambient air lead concentrations were monitored above the level of the 2008 lead standard but well below the 1978 lead NAAQS before the facility implemented emission controls. Figure 1.1.1 identifies the monitoring site location and aerial view of the facility and surrounding area.

Department and EPA Region VII monitoring unit staff visited the site on December 14, 2011 and confirmed that the site meets the applicable middle scale lead monitoring criteria and the monitoring probe and monitoring path siting criteria of Appendix D and E to Part 58 respectively. The monitoring method will utilize the low volume PM<sub>10c</sub> sampler and Pb-PM<sub>10</sub> analysis will be performed by X-ray Fluorescence (XRF) utilizing specifications and procedures in 40 CFR part 50 Appendix Q. If a three month rolling average of airborne lead greater than 0.15 µg/m<sup>3</sup> is monitored, the department will evaluate whether or not the low volume PM<sub>10c</sub> sampler will be replaced or supplemented with a Pb-TSP sampler for a subsequent attainment demonstration.

Figure 1.1.1 Forest City Lead Monitoring Site



1. Forest City- Levee AQS# 29-087-0008 (formerly known as Schuylkill Metals-West)
  2. Property boundary (source MDNR HWP/RCRA/Operating Facilities Unit)
- ★ Facility main entrance

### 1.2 Discontinuation of the Corridon monitoring site.

On January 10, 2012 department received notice from the property owner of the Corridon monitoring site (AQS# 29-179-0003, 415 RR1, Ellington MO 63638) that they would like the state to remove the sampler. The Corridon site is a SLAMS site, but the Sweetwater mine/mill facility is no longer a source of lead emissions over 0.5 tons per year according to the 2010 NEI (0.29 tpy). Ambient air monitoring data obtained from the site have yielded three month rolling averages below 80% of the lead NAAQS and for all but one month the three month rolling averages have been at or below 20% of the NAAQS. Department staff discussed this with EPA Region VII Staff and determined that there is little technical justification in continuing NAAQS compliance monitoring in this area for these reasons. EPA Region VII staff approved discontinuing the monitor on March 13, 2012.

### 1.3 Discontinuation of the Webb City monitoring site.

The department received notice on August 1, 2011 from the property owner of the Webb City Lead ambient air monitoring site (AQS # 29-097-0005, 2424 N. Main, Webb City, MO 64870) that they would like sampler removed from the property in August 2011 for reasons related to selling the property.

The ambient air monitoring results from this site as of April 2011 indicate that the highest 3-month average ambient air concentration was  $0.017 \mu\text{g}/\text{m}^3$  which is well below 80% of the  $0.15 \mu\text{g}/\text{m}^3$  lead NAAQS. Email correspondence from the MDNR Hazardous Waste Program/Superfund Section on Friday, March 26, 2011 indicates that the remediation in the area near this monitor has been completed for some time. Given the low monitored ambient air lead concentrations and the continued MDNR Superfund oversight of the remediation in the Tri-State lead area, additional ambient air monitoring or relocating the monitor in this area appears to be unnecessary.

The Webb City site was approved as a Special Purpose Monitoring Station (SPM) in the October 2009 Missouri Lead Monitoring Network Plan (page 46) and consistent with 40 CFR Part 58.20 (f), the State of Missouri does not need prior approval from EPA to discontinue the site. However the department provided notice to EPA that the site will be discontinued by the end of August 2011 and this change would be addressed in the 2012 Monitoring Network Plan.

### 1.4 Doe Run “City Hall” Lead monitor

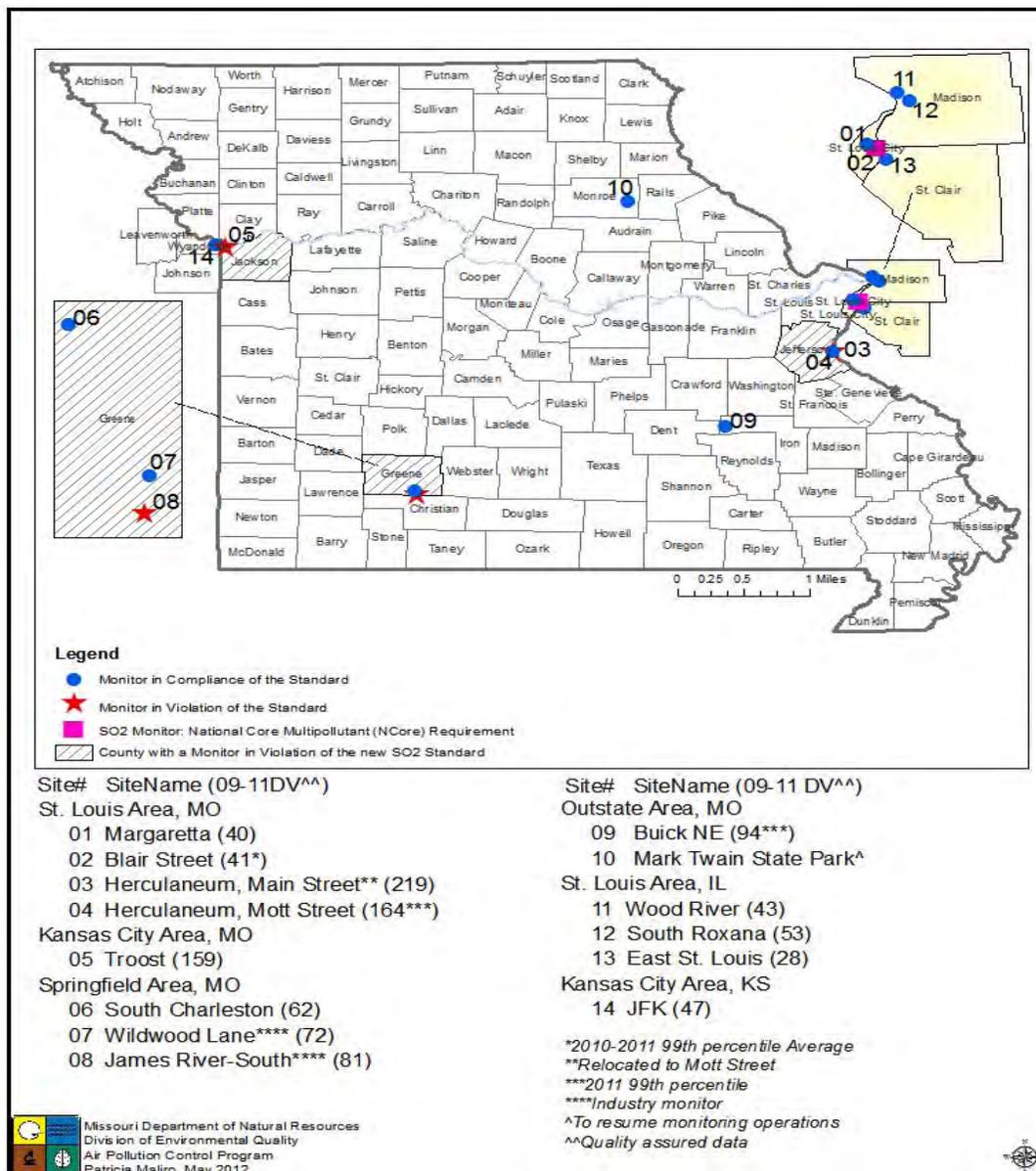
On December 13, 2011 The Doe Run Company moved their City Hall lead monitor to the MDNR Mott St. Lead monitoring site as a result of pending property transfer between the Doe Run Company and the City of Herculaneum.

## 2. Sulfur Dioxide Monitoring Network

On June 2, 2010, the US EPA revised the primary sulfur dioxide standard by establishing a 1-hour standard at the level of 75 parts per billion, or ppb. The EPA revoked the two previous primary standards of 140 ppb evaluated over 24-hrs and 30 ppb evaluated over an entire year.

SO<sub>2</sub> monitoring will be resumed at Mark Twain State Park (MTSP) as a special purpose monitor (SPM) to provide background concentrations which are needed to support the Prevention of Significant Deterioration (PSD) permitting program. No additional changes to the SO<sub>2</sub> network are proposed for 2013.

### Missouri Statewide and the Surrounding SO<sub>2</sub> Monitoring Network, 2012 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:**

In addition the regular NATTS monitoring at Blair St., the department and EPA staff are negotiating whether additional NATTS grant funds could be utilized to support collocating a near real time PM<sub>10</sub> Metals Monitor (Xact™ 620) at the NATTS 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 will be useful in supplementing ambient air monitoring data objectives addressed in EPA's multi pollutant strategy.

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

EPA Office of Air Quality Planning and Standards 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. As part of the project the EPA would provide 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 proposed location for the study is the Blair St. Site since the site is currently part of the NCore, NATTS and Chemical Speciation monitoring programs and data from the Blair St. 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. EPA OAQPS and MDNR staff are working on the data format coding necessary to facilitate AQS and AirNow data reporting.

#### **3.3 Black Carbon**

As part of the condition of receiving one time section 103 Grant funds to implement some of the near-roadway monitoring network the department will conduct special purpose PM<sub>2.5</sub> Black Carbon monitoring at the Forest Park near roadway NO<sub>2</sub> site using an Aethalometer. Black Carbon Monitoring at the other near roadway sites is being evaluated contingent on available funding.

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

The current PM<sub>2.5</sub> 103 Grant Work plan (April 2012 – March 2013) includes purchasing four new TEOM 1405-DF continuous PM<sub>2.5</sub> monitors and four new data loggers to upgrade aging TEOM-FDMS-8500C monitors at Troost and Ladue. One new monitor will be used to satisfy the network FEM/FEM collocation requirements of Part 58 Appendix A and the remaining monitor will be used as a network spare. One additional Special Purpose Micro scale PM<sub>2.5</sub> monitor is proposed for the Forest Park near-roadway monitoring site.

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 will be reported for each site as a special purpose monitor since they are available simultaneously with the PM<sub>2.5</sub> FEM channel but neither is currently designated as a Federal Equivalent Method. This 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. The manufacturer of the TEOM-1405-DF is in the process of obtaining a Federal Equivalent Method designation for both the PM<sub>10</sub> and PMcoarse channels on the TEOM-1405-DF monitor.

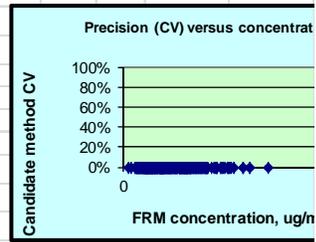
Network PM<sub>2.5</sub> collocated FRM requirements are satisfied at Blair St. NCore site in St. Louis and the Troost site in Kansas City. The following page reports the FRM/Federal Equivalent Method Comparability statistics (Class III performance criteria of 40 CFR Part 53) for one year of the TEOM-1405-DF EQPM-0609-182 operating at the Blair St. St. Louis NCore site.

Class III Performance Criteria of 40 CFR Part 53  
 Blair St. 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, 2011  
 Preliminary State Data Using All Daily Collocated Sample Pairs

<b>Summary - Candidate ARM Comparability</b>	
Applicant:	Missouri Department of Natural Resources
Candidate method:	R&P 2025 PM 2.5 FRM vs. TEOM DF-FEM - FEM Settings Class III, No data transformation
Test site:	Blair Street, NCore - (Site location 29-510-0085)

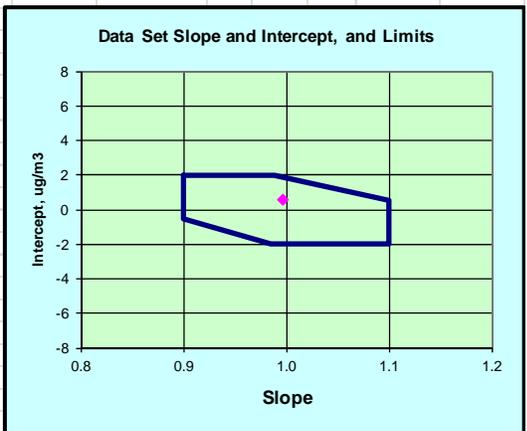
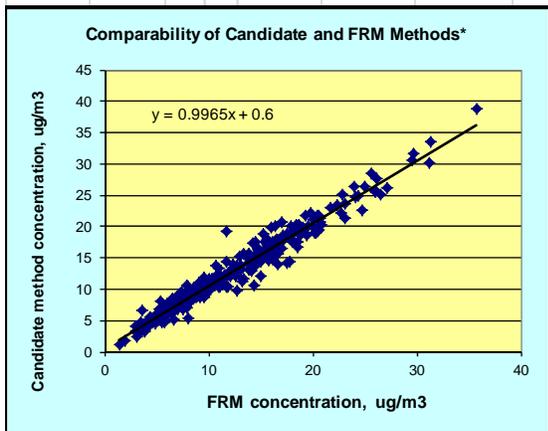
Data sets	Number
Valid data sets available:	305
Number of valid data sets required for ARM Comparison:	90
Number of valid data sets for this test is:	OK
Additional data sets needed:	--

Precision (if data are available)	Data set mean, µg/m <sup>3</sup>		Data set precision, µg/m <sup>3</sup>		Relative precision (CV)	
	FRM	Candidate	FRM	Candidate	FRM	Candidate
Mean:	11.9	12.4	0.3		2.2%	
Maximum:	35.7	38.9	275.8%		23.5%	
Minimum:	1.4	1.2	0.0%		0.0%	
Candidate / FRM Ratio:	104.4%					
<b>RMS Relative Precision for this site:</b>					<b>4.1%</b>	
<b>Test requirements - Class III:</b>					<b>10.0%</b>	<b>15.0%</b>
<b>Precision Test Results for site:</b>					<b>OK</b>	



Regression statistics	Slope <sup>1</sup>	Intercept <sup>2</sup>	Correlation (r)
Statistics for this test site:	0.997	0.600	0.97982
Limits for Class III	Upper: 1.100	1.896	
	Lower: 0.900	-2.000	0.95000
Test Results (Pass/Fail):	PASS	PASS	PASS

<sup>1</sup>Multiplicative bias    <sup>2</sup>Additive bias



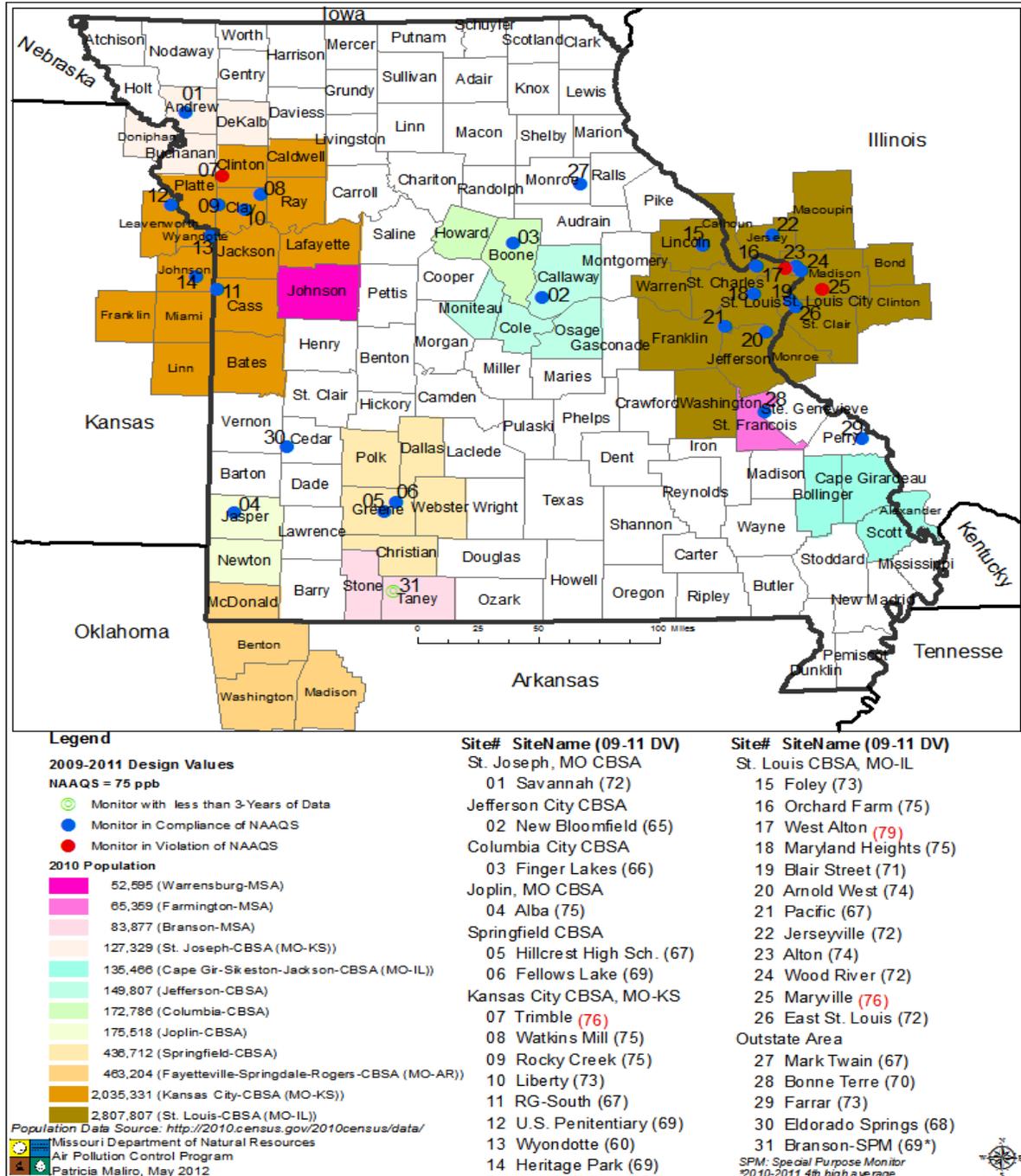
## REVISED PM<sub>2.5</sub> MONITORING NETWORK

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	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 (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	ESP	
	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
6. Forest Park (near-roadway)	H	TEOM-1405-DF FEM	ESP	24 hr & AQI (Micro Scale Monitor)
<b>Kansas City</b>				
7. Liberty	3	Speciation	ESP	
	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
8. Troost	6	Collocated FRM	ESP	24 hr & Annual (Quality Assurance)
	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
9. Richards-Gebaur South	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
<b>Springfield</b>				
10. MSU	H	TEOM-1405-DF FEM	ESP	AQI, PM10-2.5 continuous
<b>St. Joseph</b>				
11. 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>				
12. El Dorado Springs	H	TEOM-1405-DF FEM	ESP	24 hr & Annual/AQI
	3	IMPROVE	ESP	
13. Bonne Terre	3	Speciation	ESP	
14. Mingo	3	IMPROVE	Fish & Wildlife Service	
15. Hercules Glades	3	IMPROVE	Forest Service	
* 1 = Everyday sampling; 3 = Every third day; 6 = Every sixth day; H = Continuous monitoring, hourly data reported.				

## 5. Ozone Monitoring Network

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

**Missouri Statewide Ozone (O<sub>3</sub>) Monitoring Network, 2012**  
**2008 Primary 8-hour NAAQS = 75 Parts per Billion (ppb)**



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

### 6.1 Method Changes

The filter based PM<sub>10</sub> monitoring at MSU and Front St. will be replaced by the continuous R & P TEOM® 1400, 1400a EQPM-1090-079 PM<sub>10</sub> FEM monitor to increase the temporal availability of PM<sub>10</sub> NAAQS compliance monitoring in these areas. Hourly PM<sub>10</sub> data will provide more data for particulate matter episode analysis.

### 6.2 Hall St. PM<sub>10</sub> site AQS #29-510-0088 Discontinued

Several property access agreements needed to be addressed as a result of the transition of Local Air Agency ambient air monitoring activities to the State of Missouri. The State of Missouri was not able to negotiate an access agreement with the property owner of the Hall St site and Monitoring was discontinued on April 24, 2012 at the request of the property owner.

Department staff attempted to locate another suitable monitoring site just north of this location at an Ameren UE substation, but safety requirements at this location did not allow for leasing of the space. Other nearby candidate monitoring sites either do not meet the applicable siting criteria of 40 CFR Part 58 or stable property ownership and the potential for property vandalism appears to be a concern for successful long term monitoring. For these reasons the department requests that EPA review the following criteria and approve permanently discontinuing the site.

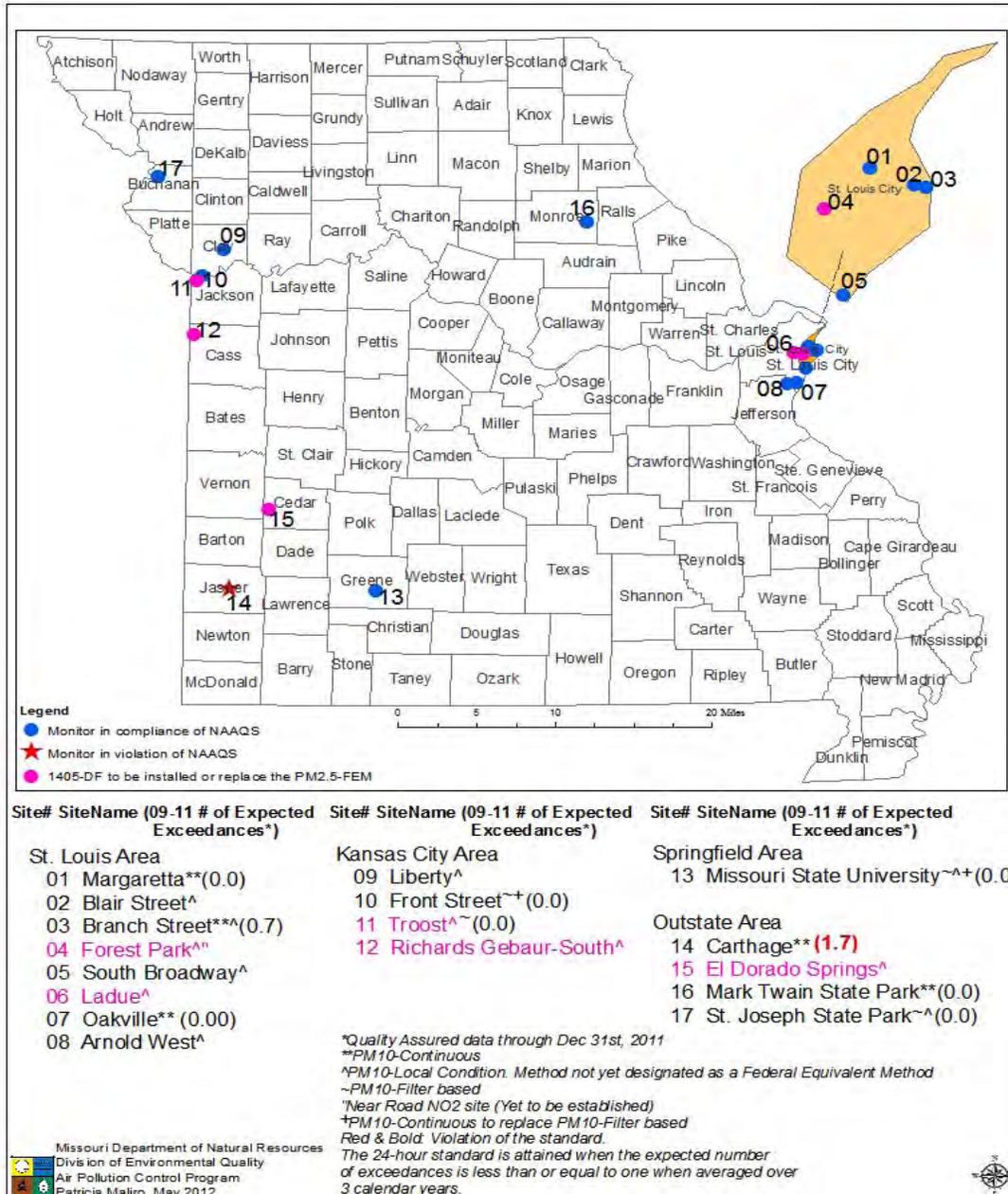
50 CFR Part 58.14 identifies conditions under which SLAMS monitors may be approved by the EPA Regional Administrator to be discontinued. The PM<sub>10</sub> NAAQS is based on an Expected Exceedance form consistent with Appendix K to Part 50.

- The site is not currently in violation of the PM<sub>10</sub> NAAQS.
- The site has not monitored an exceedance of the PM<sub>10</sub> standard since March 12, 2007.
- The site is not required in any PM<sub>10</sub> Attainment or Maintenance plan.
- Another PM<sub>10</sub> site, Branch Street AQS# 29-510-0093, is monitoring a higher PM<sub>10</sub> design value and is located in the same county.
- The minimum monitoring requirements cited in 40 CFR Part 58 Appendix D for PM<sub>10</sub> in the St. Louis CBSA is still satisfied by the total number (six) of PM<sub>10</sub> monitors remaining in the St. Louis MO/IL CBSA after the site is discontinued.

As discussed in Section 4, the TEOM-1405-DF monitor has the capability of reporting the PM<sub>10c</sub> (PM<sub>10</sub> at local conditions of ambient temperature and barometric pressure) along with the FEM PM<sub>2.5</sub> measurements. Once the TEOM 1405-DF obtains a PM<sub>10</sub> FEM designation, the number of Special Purpose NAAQS comparable continuous PM<sub>10</sub> monitors will increase in the St. Louis area by four (4) sites (Blair St., Ladue, South Broadway and the new Forest Park Near Roadway site) which will bolster the count toward the PM<sub>10</sub> minimum monitoring requirements in this CBSA to a total count of ten (10) monitors.

For these reasons the department requests that the EPA Regional Administrator approve permanently discontinuing the Hall St. PM<sub>10</sub> monitoring site because the discontinuance does not compromise the data collection needed for implementation of the PM<sub>10</sub> NAAQS and the requirements of 40 CFR Part 58, Appendix D continue to be met.

**Missouri Statewide PM<sub>10</sub> Monitoring Network, 2012**  
**24-hour NAAQS = 150 Micrograms per Cubic Meter (µg/m<sup>3</sup>)**

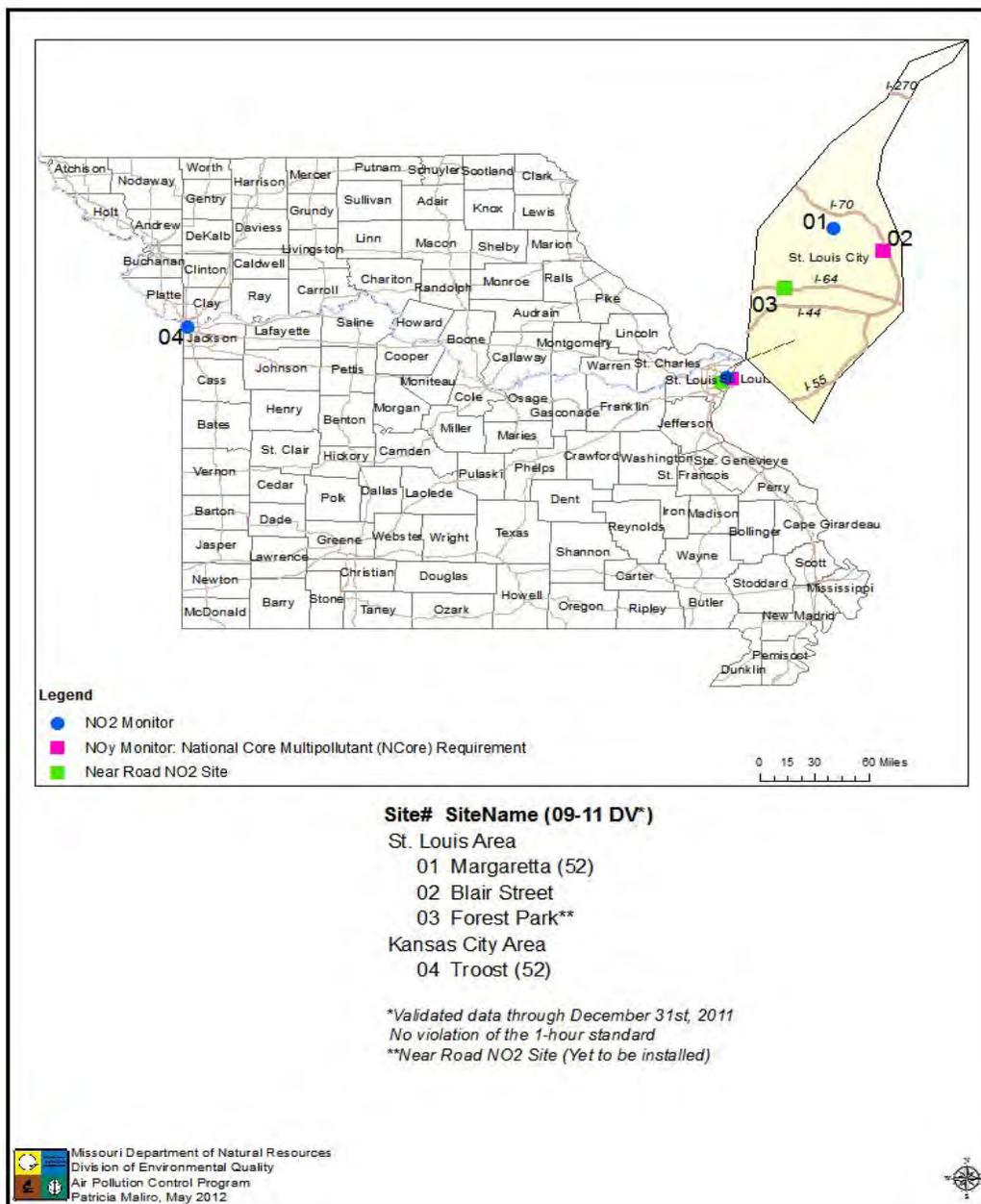


## 7. Nitrogen Dioxide (NO<sub>2</sub>) Monitoring Network

The department intends to add one near-roadway NO<sub>2</sub> monitor to the network at the Forest Park I-40/64 near-roadway monitoring site by January 1, 2013. The Community-wide monitoring network requirement is satisfied by the existing Troost and Margaretta monitoring sites.

### 7.1 NO<sub>2</sub> SLAMS Network

#### Missouri Statewide Nitrogen Dioxide (NO<sub>2</sub>) Monitoring Network, 2012 1-hour NAAQS = 100 ppb



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

### 7.2.1 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 are to be identified in the 7/2012 air monitoring plan and begin operation by 1/1/2013. Because of resource and other constraints, EPA staff have, over the last several months, proposed a relaxation of this schedule. EPA staff have recently communicated that this schedule change would likely be included in a rule change that would require the first St. Louis area near-road site to begin operation in January 2014, the Kansas City area site in January 2014, and the second St. Louis area site January 2015. Based in part on communication with EPA Region VII staff, the department intends to establish the first St. Louis area site in January 2013, the Kansas City area site in January 2014, and the second St. Louis area site in January 2015. This schedule is subject to availability of funds.

CO: The final rule continuing the NAAQS, signed 8/12/2011 and published 8/31/2011 requires near-road CO monitoring (collocated with NO<sub>2</sub> sites) at one site in the St. Louis CBSA by 1/2015 and one site in the Kansas City CBSA by 1/2017. The department intends to establish CO monitoring at the same time as NO<sub>2</sub> monitoring, as described above.

Near-road monitoring stations must be within 50 meters (164 feet) of target road segments to measure expected peak concentrations, and should be within about 20 meters of the roadway. Microscale near-road NO<sub>2</sub> monitors must have inlets between 2 and 7 meters above ground level. Microscale near-road CO monitors must have inlets 3±½ meters above ground level.

### EPA Guidance

EPA issued drafts of a Near-road NO<sub>2</sub> Monitoring Technical Assistance Document (TAD) on 8/11/2011 and 12/21/2011. The final TAD is expected to be released in 2012. The TAD is available online at <http://www.epa.gov/ttn/amtic/nearroad.html>. The TAD includes recommendations on site selection that were used in the analysis described below.

### 7.2.2 Analysis and Site Selection for the St. Louis Area

Traffic counts (annual average daily traffic; AADT) for major highway segments in Missouri are available on a Missouri Department of Transportation (MODOT) website at <http://www.modot.mo.gov/safety/trafficvolumemaps.htm>. Truck volumes are also indicated for some, but not all highway segments. The maximum 2010 AADT in the St. Louis area is 183,813.

The TAD recommends ranking segments by AADT and also by weighted AADT, where heavy-duty vehicles are weighted a factor of 10 times higher. Table 7.2-1 lists highway segments with

AADT greater than 100,000 (and a few additional segments included for continuity). The numbers in the left column are arbitrary location identifiers. Table 7.2-2 adds weighted AADT using truck volumes from the MODOT maps where available and using interpolated or extrapolated truck volumes otherwise.

For the St. Louis area, as shown in Tables 7.2-3 and 7.2-4, the eight segments with highest AADT were the same as the eight segments with the highest weighted AADT.

Figure 7.2-1 shows the locations of these eight segments superimposed on a portion of one of the MODOT AADT maps. The four segments with the highest AADT, unweighted or weighted (no. 39, 40, 41, and 42), are on I-270 between Page Avenue (highway 364) to the north and I-44 to the south. Two of the segments are on I-64 between I-170 to the west and Kingshighway Boulevard to the east, adjacent to the southern boundary of Forest Park. The remaining two segments are on I-70 just west of I-270, and on I-270 between highway 370 on the west and Lindbergh Boulevard on the east.

Figure 7.2-2 shows a wind rose for recent multiple years (2002 to 2006) at the St. Louis airport. The wind rose suggests that a near-road monitoring site would, in general, be best located in a direction from north to east of a target roadway.

Table 7.2-1.

<b>St. Louis Area Traffic Counts &gt; 100,000 AADT (2010)</b>			
Ranked by AADT			
<b>No.</b>	<b>Highway</b>	<b>Location</b>	<b>AADT</b>
41	I270 (n to s)	s of 64	183,813
40	I270 (n to s)	n of 64	176,384
39	I270 (n to s)		175,022
42	I270 (n to s)	n of 44	174,973
16	US40/I64 (w to e)	e of 170	173,236
36	I270 (n to s)	e of 370	166,108
6	I70 (west to east)	w of 270	161,338
17	US40/I64 (w to e)		159,326
38	I270 (n to s)	s of 70	157,483
43	I270 (n to s)	s of 44	155,464
5	I70 (west to east)		148,056
14	US40/I64 (w to e)	e of 67	145,940
34	I270 (n to s)	e of 170	141,577
22	I44 (w to e)		141,541
8	I70 (west to east)	e of 67	140,853
21	I44 (w to e)		138,031
15	US40/I64 (w to e)	w of 170	137,403
2	I70 (west to east)	e of 79	135,074
9	I70 (west to east)	e of 170	135,061
20	I44 (w to e)		134,961
4	I70 (west to east)	e of 94	130,566
13	US40/I64 (w to e)	e of 270	129,909
35	I270 (n to s)	w of 170	126,394
37	I270 (n to s)	w of 370	123,378
7	I70 (west to east)	e of 270	122,444
27	I55 (n to s)	s of 270	121,525
29	I170 (n to s)	s of 70	121,164
10	I70 (west to east)		118,591
3	I70 (west to east)	e of 370	116,010
1	I70 (west to east)	w of 79	115,967
32	I170 (n to s)	n of 64	115,797
12	US40/I64 (w to e)	w of 270	113,732
26	I55 (n to s)	n of 270	112,984
31	I170 (n to s)		109,321
33	I270 (n to s)	w of 367	108,774
30	I170 (n to s)		106,961
28	I55 (n to s)		101,882
19	I44 (w to e)	e of 61	100,841
23	I55 (n to s)	s of 64	100,615
11	I70 (west to east)		95,690
24	I55 (n to s)	s of 44	91,910
18	US40/I64 (w to e)		91,109
25	I55 (n to s)		86,323

Table 7.2-2.

St. Louis Area Traffic Counts > 100,000 AADT (2010) (as entered/unranked)							
No.	Highway	Location	AADT	Truck AADT	Truck/Total	est T/T	adj AADT
1	I70 (west to east)	w of 79	115,967			0.117	238,137
2	I70 (west to east)	e of 79	135,074	15,811	0.117	0.117	277,373
3	I70 (west to east)	e of 370	116,010			0.137	258,658
4	I70 (west to east)	e of 94	130,566			0.137	291,112
5	I70 (west to east)		148,056			0.137	330,108
6	I70 (west to east)	w of 270	161,338			0.137	359,722
7	I70 (west to east)	e of 270	122,444	19,125	0.156	0.156	294,569
8	I70 (west to east)	e of 67	140,853	17,260	0.123	0.123	296,193
9	I70 (west to east)	e of 170	135,061			0.161	330,317
10	I70 (west to east)		118,591			0.146	274,868
11	I70 (west to east)		95,690	19,016	0.199	0.199	266,834
12	US40/I64 (w to e)	w of 270	113,732	10,704	0.094	0.094	210,068
13	US40/I64 (w to e)	e of 270	129,909			0.107	254,972
14	US40/I64 (w to e)	e of 67	145,940	17,486	0.120	0.120	303,314
15	US40/I64 (w to e)	w of 170	137,403			0.135	304,829
16	US40/I64 (w to e)	e of 170	173,236	26,152	0.151	0.151	408,604
17	US40/I64 (w to e)		159,326			0.151	375,795
18	US40/I64 (w to e)		91,109			0.151	214,895
19	I44 (w to e)	e of 61	100,841			0.117	207,075
20	I44 (w to e)		134,961			0.117	277,140
21	I44 (w to e)		138,031	16,157	0.117	0.117	283,444
22	I44 (w to e)		141,541			0.117	290,652
23	I55 (n to s)	s of 64	100,615			0.131	219,346
24	I55 (n to s)	s of 44	91,910	12,051	0.131	0.131	200,369
25	I55 (n to s)		86,323			0.131	188,189
26	I55 (n to s)	n of 270	112,984			0.131	246,312
27	I55 (n to s)	s of 270	121,525			0.131	264,931
28	I55 (n to s)		101,882			0.131	222,109
29	I170 (n to s)	s of 70	121,164			0.137	270,287
30	I170 (n to s)		106,961			0.137	238,604
31	I170 (n to s)		109,321			0.137	243,868
32	I170 (n to s)	n of 64	115,797			0.137	258,315
33	I270 (n to s)	w of 367	108,774	20,059	0.184	0.184	289,305
34	I270 (n to s)	e of 170	141,577			0.151	333,626
35	I270 (n to s)	w of 170	126,394			0.151	297,848
36	I270 (n to s)	e of 370	166,108			0.151	391,434
37	I270 (n to s)	w of 370	123,378			0.151	290,740
38	I270 (n to s)	s of 70	157,483	18,431	0.117	0.117	323,362
39	I270 (n to s)		175,022			0.153	416,802
40	I270 (n to s)	n of 64	176,384			0.153	420,046
41	I270 (n to s)	s of 64	183,813			0.153	437,738
42	I270 (n to s)	n of 44	174,973	33,236	0.190	0.190	474,097
43	I270 (n to s)	s of 44	155,464	18,198	0.117	0.117	319,246
				average		0.140	0.138

Table 7.2-3.

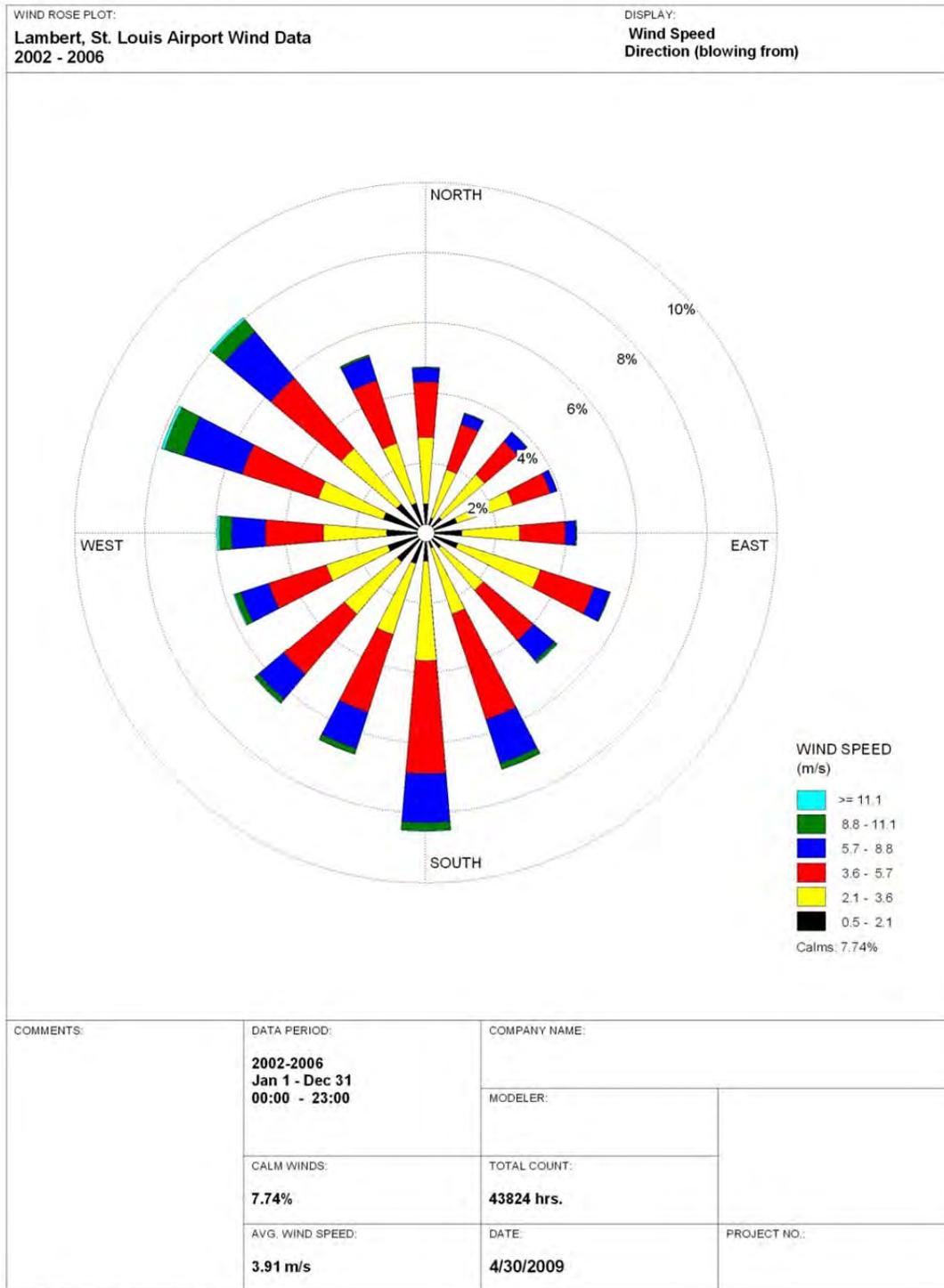
<b>St. Louis Area Traffic Counts &gt; 100,000 AADT (2010)</b>				
Ranked by AADT				
No.	Highway	Location	AADT	
41	I270 (n to s)	s of 64	183,813	
40	I270 (n to s)	n of 64	176,384	
39	I270 (n to s)		175,022	
42	I270 (n to s)	n of 44	174,973	
16	US40/I64 (w to e)	e of 170	173,236	
36	I270 (n to s)	e of 370	166,108	
6	I70 (west to east)	w of 270	161,338	
17	US40/I64 (w to e)		159,326	

Table 7.2-4.

<b>St. Louis Area Traffic Counts &gt; 100,000 AADT (2010)</b>					
Ranked by adjusted AADT, trucks =14% (average)					
No.	Highway	Location	AADT	Adj. AADT	
41	I270 (n to s)	s of 64	183,813	415,417	
40	I270 (n to s)	n of 64	176,384	398,628	
39	I270 (n to s)		175,022	395,550	
42	I270 (n to s)	n of 44	174,973	395,439	
16	US40/I64 (w to e)	e of 170	173,236	391,513	
36	I270 (n to s)	e of 370	166,108	375,404	
6	I70 (west to east)	w of 270	161,338	364,624	
17	US40/I64 (w to e)		159,326	360,077	



Figure 7.2-2.



## Field Evaluation and Description of Potential St. Louis Area Monitoring Sites

On December 22, 2011 Missouri Department of Natural Resources Air Pollution Control Program (APCP) and Environmental Services Program (ESP) staff visited potential monitoring sites in the vicinity of the highway segments identified above. On February 15, 2012, APCP staff revisited some of the sites with Mr. Leland Grooms, Air Monitoring Team Leader for EPA Region VII. This section presents discussion of the suitability of the sites.

I-270 north of I-44: The area near I-270 just north of I-244 is heavily wooded. It is also somewhat hilly. No suitable monitoring sites were identified in this area.

I-270 north of I-64: The Saint Johns Mercy Medical Center complex is on McCauley Drive in Creve Coeur, adjacent to (east of) I-270 and about ½ mile north of I-64. The area between McCauley Drive and I-270 is at the same level as the roadway, and would meet siting criteria for a near-road monitoring station. This location is in a desirable direction (E) from and in close proximity (25 meters) to the section of highway with the highest AADT in the St. Louis area, and also not far (about 1 kilometer) from another highway with high AADT. The potential for congestion may be less than that for the Forest Park area because of the higher number of traffic lanes. It may be difficult to secure permission to locate an air monitoring station in the landscaped area adjacent to the highway. The division between MODOT and hospital property is not obvious. This location would provide some indication of the exposure of a sensitive population because of its proximity to the medical center and to nearby residential areas.

I-64 between I-270 and Kingshighway Boulevard (Forest Park): Forest Park in St. Louis is bounded by Skinker Boulevard on the west, Lindell Boulevard on the north, Kingshighway Boulevard on the east, and I-64 on the south. Two locations near the southeast corner of the park were identified that would meet siting criteria, adjacent to the St. Louis Mounted Police barn near the planetarium, and near the greenhouses behind park office buildings (see Figures 7.2-3). This location is in the desired direction (N) from and in close proximity (20 to 25 meters) to a highway with high AADT and high potential for congestion. This location would provide some indication of population exposure, since there is a jogging or biking trail along the park boundary adjacent to the highway, and hospital complexes to the east of Forest Park.

I-70 west of I-270: Rider Trail S. and Hollenberg Drive (same street, changes name) is roughly parallel to and north of I-70 in Bridgeton between I-270 to the east and Earth City Expressway to the west. Two locations in this area were identified that would meet siting criteria, near the southeast corner of the CAPS Inc. building, and across the street from the Marriott Courtyard. Either of these locations is in a desirable direction (N) from and in relatively close proximity (20 to 30 meters) to a highway segment with a relatively high AADT but less potential for congestion than the Forest Park location. The difficulty of securing permission to locate an air monitoring station is unknown. The area near this location is primarily commercial and residential, so would provide some indication of population exposure.

I-270 east of Highway 370 and west of Lindbergh Boulevard: Two locations in this general area were identified that would meet siting criteria. One area is in Hazelwood at the end of Brookes Drive on the south side of I-270, adjacent to Bommarito Volkswagen and Brookes Park. This location is in a non-optimal direction (S) from a highway segment with high AADT and potential

congestion, but not as close (30 meters) to the highway as some of the other sites evaluated. The difficulty of securing permission to locate an air monitoring station is unknown. The area near this location is primarily commercial and residential, so would provide some indication of population exposure.

The second area is on the north side of I-270, southeast of the Prairie Commons Branch Library, north of Dunn Road, east of Utz Lane, southwest of Hazelwest Drive, in either Hazelwood or an unincorporated area of St. Louis County. The location near the library is in a desirable direction (N) from a highway segment with high AADT and potential congestion, but not as close (35 meters) to the highway as some of the other sites evaluated because of a frontage road between the site and the highway. The difficulty of securing permission to locate an air monitoring station might be less than at some sites if the location is on the library property. The area near this location is primarily commercial and residential, so would provide some indication of population exposure.

### St. Louis Area Site Ranking

Some of the characteristics of each location are summarized in Table 7.2-5, which lists the locations in order of ranking. The table includes an indicator of the potential for congestion at each location, the ratio of AADT to number of traffic lanes (as suggested in the TAD).

As discussed above, truck counts are not available for all road segments and so were estimated by interpolation or extrapolation. Unfortunately, none of the road segments immediately adjacent to the locations of interest have truck counts, but only estimated truck fractions. The estimated fractions are not different enough to discriminate between locations on that basis.

An additional consideration, not shown in the table, is the potential likelihood of securing permission from landowners for location of an air monitoring station.

Based on AADT, congestion, distance and direction from the roadway, and likelihood of securing permission to locate a monitoring station, the locations are ranked in approximately the order listed in Table 7.2-5. Based in part on the February 15, 2012 site visits, EPA Region VII staff generally approved all of the sites and identified the site in Forest Park as first choice, consistent with this evaluation.

Table 7.2-5.

Summary and Approximate Ranking of Sites							
Location	Highway	AADT	Lanes	AADT/Lanes	Estimated Truck Fraction	Approx. Distance to Roadway (m)	Direction from Roadway
Forest Park	64	159,326	8	19,916	0.151	20-25	N
Hospital	270	176,384	12	14,699	0.153	25	E
CAPS/Courtyard	70	161,338	11	14,667	0.137	20-30	N
Library	270	166,108	8	20,764	0.151	35	N
Brookes	270	166,108	9	18,456	0.151	30	S

Selection of First St. Louis Area Site

ESP staff contacted St. Louis City Parks staff by telephone in late February 2012 and discussed the possibility of locating an air monitoring site in Forest Park adjacent to Interstate 64. On March 1, 2012, ESP staff met with St. Louis City Parks staff in Forest Park. During that visit, a specific site to the west of the greenhouses was identified which is acceptable to City Parks staff (see Figures 7.2-4 and 7.2-5). The monitoring site is elevated a few feet above the level of the roadway, but not enough to be a concern. The 10-meter meteorological instrument tower may need to be located at a slightly greater distance from the roadway than the air monitoring shelter in order to keep it away from power lines. Based on the analysis and site visits described above, APCP recommends the Forest Park site identified during the March 1, 2012 as the first near-road monitoring site for the St. Louis area. Agreement for use of this site has been negotiated between Missouri Department of Natural Resources and St. Louis City, and operation of this site is expected to begin January 2013.

Second St. Louis Area Site

The second St. Louis area site, which will begin operation in January 2014, will probably be selected from one of the candidate sites identified above or at least from the areas identified above. One consideration will be selection of a site with different traffic patterns and/or a different mix of vehicles than the Forest Park site.

Figure 7.2-3. Aerial photographs of Forest Park in St. Louis and I-64 (along the southern edge of the park). The lower photograph shows the identified location for an air monitoring station near the greenhouses in Forest Park. The arrow extends from the area of interest in one photograph to the same area in the other photograph.



Figure 7.2-4. Looking east along Interstate 64. The monitoring site will be on the paved area inside the fence to the left. The jogging or biking path along the park perimeter extends straight ahead, and Interstate 64 is to the right.



Figure 7.2-5. Looking south across Interstate 64. The monitoring site will be inside the fence near where the two persons are standing.



### 7.2.3 Analysis for the Kansas City Area

Analysis for the Kansas City area has also been done that is similar to that described above for the St. Louis area. Table 7.2-6 lists highway segments with AADT greater than 50,000. The maximum 2010 AADT in the St. Louis area is 152,856. Table 7.2-7 adds weighted AADT using truck volumes from the MODOT maps where available and using interpolated or extrapolated truck volumes otherwise.

For the Kansas City area, as shown in Tables 7.2-8 and 7.2-9, the eight segments with highest weighted AADT were the same as eight of the ten segments with the highest AADT (highlighted in Tables 7.2-6, 7.2-8, and 7.2-9).

Figure 7.2-6 shows the locations of these eight segments superimposed on a portion of one of the MODOT AADT maps. Four of the segments are on I-70 extending from I-435 on the west to a point between I-470 and Highway 7 on the east. Two of the segments are on I-435 between the Missouri/Kansas state line on the west and Highway 71 on the east. Two additional segments are on I-70 east of I-29 and on I-35 south of I-670, both in the central Kansas City area, shown on the inset map in the figure.

Figure 7.2-7 shows a wind rose for recent multiple years (2002 to 2006) at the Kansas City airport. The wind rose suggests that a near-road monitoring site would, in general, be best located north of a target roadway.

#### Preliminary Evaluation of Kansas City Area Sites

Based on review of aerial photographs of the identified segments and on a brief visit to the areas, suitable monitoring sites are most likely to be found in the first two areas described above, I-70 between I-435 on the west and a point between I-470 and Highway 7 on the east and I-435 between the Missouri/Kansas state line on the west and Highway 71 on the east. Aerial photographs of these two areas are shown in Figures 7.2-8 and 7.2-9. Field evaluation of potential monitoring sites is expected to be concentrated in these two areas on the north side of the respective roadways.

Table 7.2-6

Kansas City Area Traffic Counts > 50,000 AADT (2010)			
Ranked by AADT			
No.	Highway	Location	AADT
13	I435S	e of st I	152,856
46	I70	e of 670	135,266
12	I435S	bet 71 & st I	129,464
22	I35	s of 670	118,097
49	I70	e of 435	114,495
50	I70		114,034
8	I435E	n of 70	103,008
35	I670	e of 35	99,388
52	I70	e of 470	98,488
51	I70	w of 470	98,244
26	71		93,692
20	I29/I35	s of 24	92,249
44	I70	at 29/35/70?	92,249
7	I435E	s of 24	90,778
25	71		90,385
29	71	s of 50	89,131
9	I435E	s of 70	88,710
48	I70	w of 435	85,528
3	I29	w of 169	83,933
6	I435E	s of 210	82,545
23	I35	e of st I	80,181
43	I70	e of 169	79,980
45	I70	s of 29/35/70	77,323
2	I29	s of 152	75,952
30	71		74,995
39	I470	e of 71	74,891
24	71	s of 670	73,392
10	I435E	s of 350	73,354
19	I29/I35	n of 24	72,054
31	71	n of 150	71,248
32	71	s of 150	69,724
47	I70		69,715
53	I70	w of 7	69,390
40	50	s of 470	69,228
16	I35	w of 1	68,634
42	I70	e of st I	68,318
28	71	n of 435	67,735
11	I435E	n of 71	66,386
4	I29	w of 35	65,994
27	71		65,107
36	I470	s of 40	64,739
5	I435E	s of 35	63,464
34	I670	w of 35	61,233
33	I670	e of st I	61,208
37	I470		59,514
18	I29/I35	s of junction	59,044
38	I470	e of 50	58,863
21	I35	s of 70	58,389
14	I35	s of 152	56,716
41	50	w of 291	55,759
17	I35	e of 29	53,185
15	I35	w of 435E	52,884
1	I435/I29	near MCI	50,153

Table 7.2-7

Kansas City Area Traffic Counts > 50,000 AADT (2010) (as entered/unranked)							
No.	Highway	Location	AADT	Truck AADT	Truck/Total	est T/T	adj AADT
1	I435/I29	near MCI	50,153			0.058	76,147
2	I29	s of 152	75,952	4,374	0.058	0.058	115,318
3	I29	w of 169	83,933			0.058	127,436
4	I29	w of 35	65,994			0.058	100,199
5	I435E	s of 35	63,464			0.115	128,902
6	I435E	s of 210	82,545	9,457	0.115	0.115	167,658
7	I435E	s of 24	90,778			0.135	200,886
8	I435E	n of 70	103,008			0.135	227,951
9	I435E	s of 70	88,710			0.135	196,310
10	I435E	s of 350	73,354	11,368	0.155	0.155	175,666
11	I435E	n of 71	66,386			0.155	158,979
12	I435S	bet 71 & st I	129,464			0.155	310,037
13	I435S	e of st I	152,856			0.155	366,055
14	I35	s of 152	56,716			0.166	141,604
15	I35	w of 435E	52,884	5,748	0.109	0.109	104,616
16	I35	w of 1	68,634	14,388	0.210	0.210	198,126
17	I35	e of 29	53,185			0.162	130,779
18	I29/I35	s of junction	59,044	6,765	0.115	0.115	119,929
19	I29/I35	n of 24	72,054			0.155	172,584
20	I29/I35	s of 24	92,249			0.155	220,955
21	I35	s of 70	58,389			0.155	139,853
22	I35	s of 670	118,097			0.155	282,866
23	I35	e of st I	80,181			0.155	192,049
24	71	s of 670	73,392			0.067	117,333
25	71		90,385			0.067	144,500
26	71		93,692			0.067	149,787
27	71		65,107			0.067	104,088
28	71	n of 435	67,735	4,506	0.067	0.067	108,289
29	71	s of 50	89,131			0.067	142,495
30	71		74,995			0.067	119,896
31	71	n of 150	71,248			0.067	113,905
32	71	s of 150	69,724			0.067	111,469
33	I670	e of st I	61,208			0.195	168,885
34	I670	w of 35	61,233	11,969	0.195	0.195	168,954
35	I670	e of 35	99,388	15,812	0.159	0.159	241,696
36	I470	s of 40	64,739	10,061	0.155	0.155	155,288
37	I470		59,514			0.135	131,817
38	I470	e of 50	58,863			0.135	130,375
39	I470	e of 71	74,891	8,580	0.115	0.115	152,111
40	50	s of 470	69,228			0.115	140,609
41	50	w of 291	55,759			0.115	113,252
42	I70	e of st I	68,318	13,354	0.195	0.195	188,504
43	I70	e of 169	79,980			0.195	220,681
44	I70	at 29/35/70?	92,249			0.195	254,534
45	I70	s of 29/35/70	77,323			0.195	213,350
46	I70	e of 670	135,266	26,440	0.195	0.195	373,226
47	I70		69,715			0.226	211,641
48	I70	w of 435	85,528			0.226	259,647
49	I70	e of 435	114,495			0.226	347,585
50	I70		114,034			0.226	346,185
51	I70	w of 470	98,244			0.226	298,250
52	I70	e of 470	98,488	25,305	0.257	0.257	326,233
53	I70	w of 7	69,390			0.257	229,848
				average	0.150	0.143	

Table 7.2-8

<b>Kansas City Area Traffic Counts &gt; 50,000 AADT (2010)</b>				
Ranked by AADT				
No.	Highway	Location	AADT	
13	I435S	e of st I	152,856	
46	I70	e of 670	135,266	
12	I435S	bet 71 & st I	129,464	
22	I35	s of 670	118,097	
49	I70	e of 435	114,495	
50	I70		114,034	
8	I435E	n of 70	103,008	
35	I670	e of 35	99,388	
52	I70	e of 470	98,488	
51	I70	w of 470	98,244	

Table 7.2-9

<b>Kansas City Area Traffic Counts &gt; 50,000 AADT (2010)</b>				
Ranked by adjusted AADT, trucks=14% (average)				
No.	Highway	Location	AADT	Adj. AADT
46	I70	e of 670	135,266	373,226
13	I435S	e of st I	152,856	366,055
49	I70	e of 435	114,495	347,585
50	I70		114,034	346,185
52	I70	e of 470	98,488	326,233
12	I435S	bet 71 & st I	129,464	310,037
51	I70	w of 470	98,244	298,250
22	I35	s of 670	118,097	282,866
48	I70	w of 435	85,528	259,647
44	I70	at 29/35/70?	92,249	254,534

Figure 7.2-6

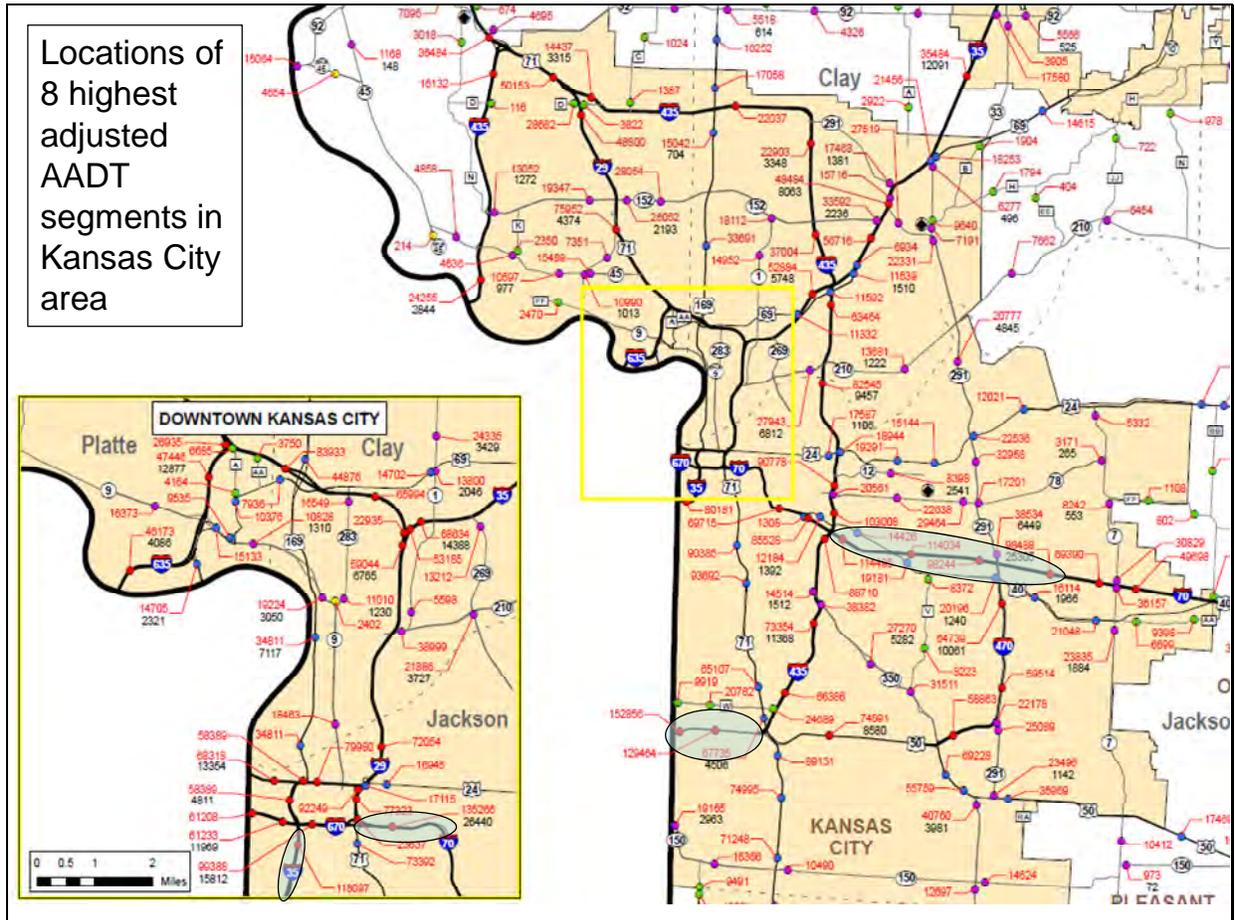


Figure 7.2-7

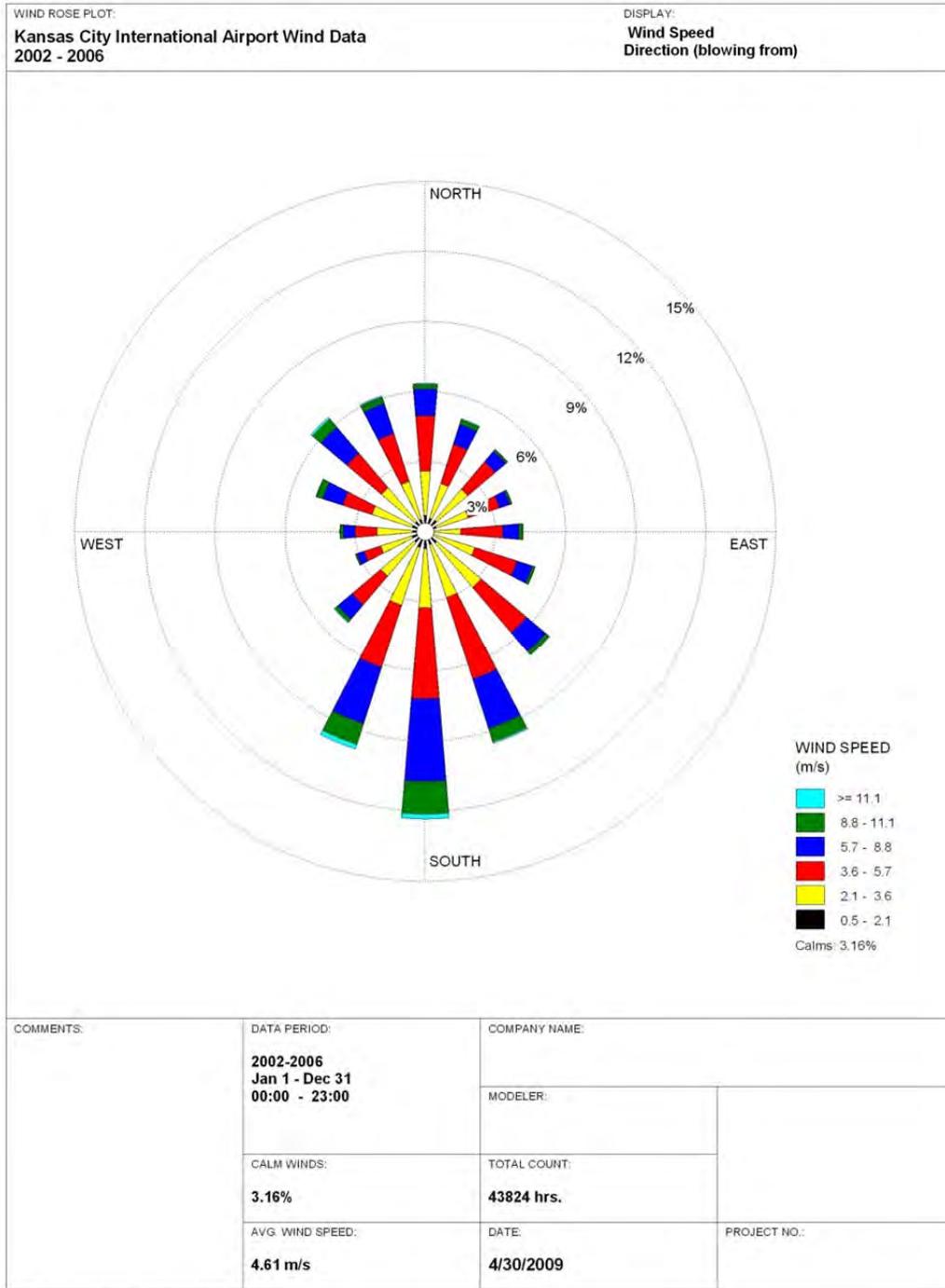


Figure 7.2-8. Aerial photograph of the I-70 area of interest between I-435 on the west and a point between I-470 and Highway 7 on the east.

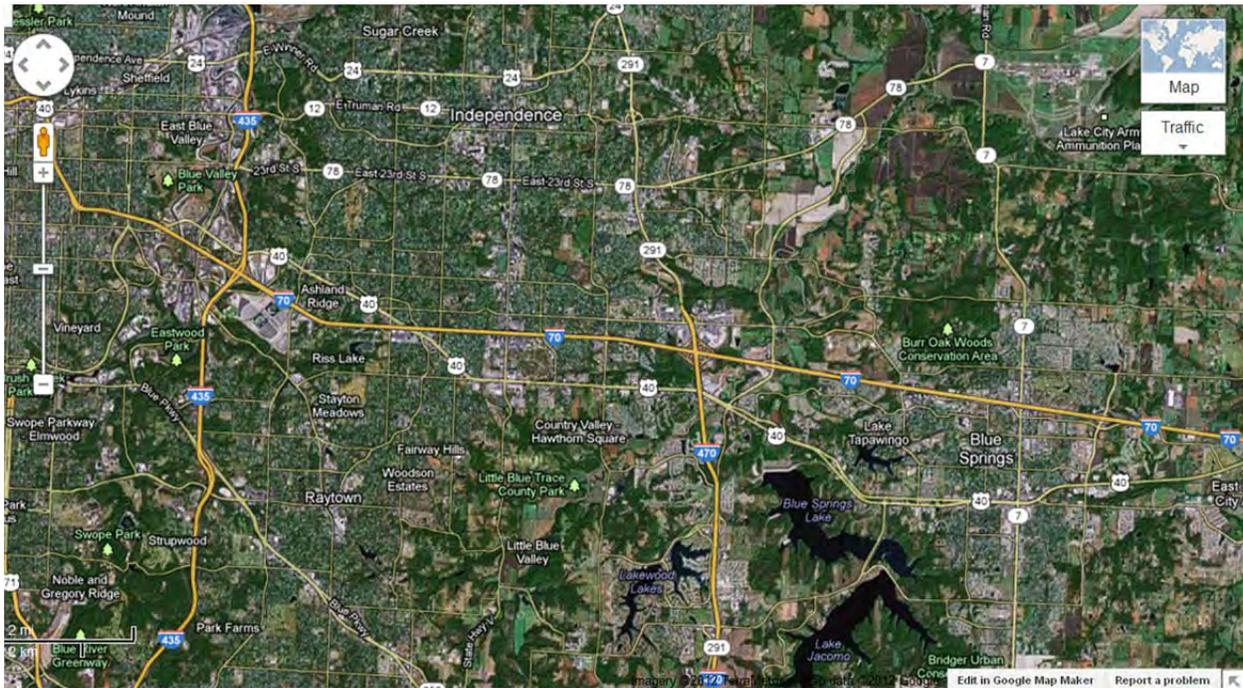
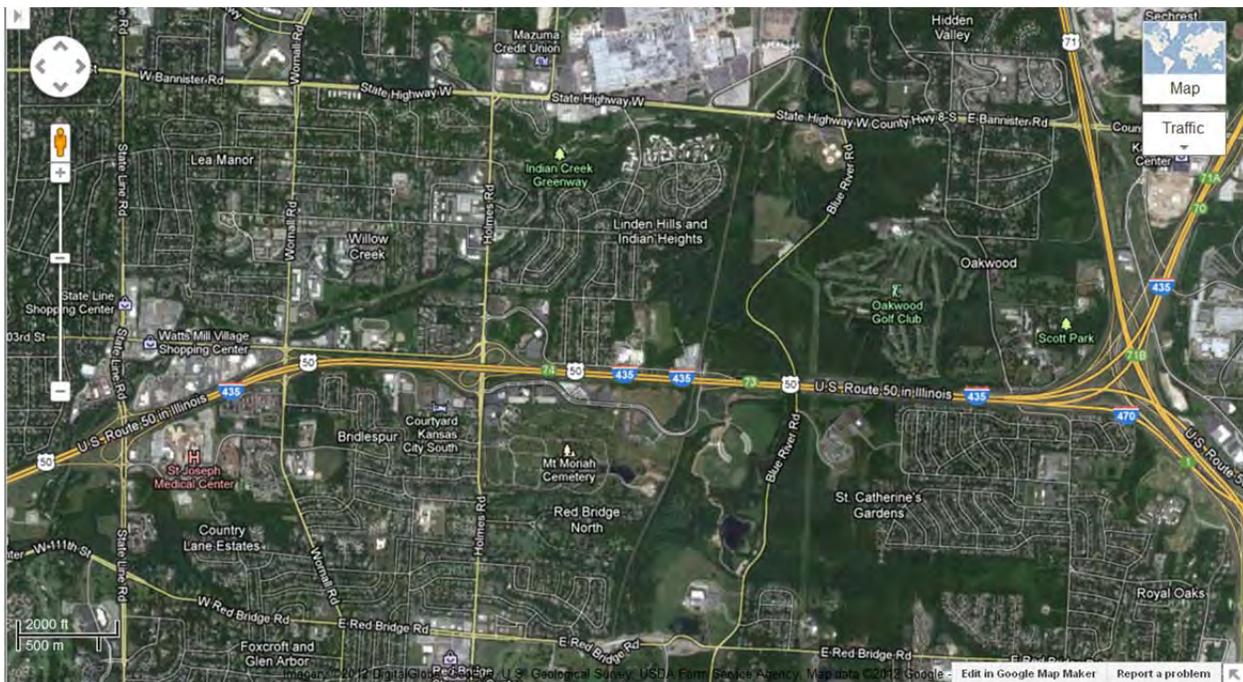


Figure 7.2-9. Aerial photograph of the I-435 area of interest between the state line on the west (indicated by State Line Road) and the interchange on the east.



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

The department intends to add one near-roadway CO monitor to the network at the Forest Park I-40/64 near-roadway monitoring site (see location map in section 7.1). This monitor will satisfy the minimum near-roadway monitoring requirements for the St. Louis MO-IL CBSA. Changes to CO monitoring requirements were published in the Federal Register: August 31, 2011 (Volume 76, Number 169). These rules require near-roadway CO monitoring at a subset of the near-roadway NO<sub>2</sub> monitoring network in CBSAs with populations of 1 million or more.

The department intends to add one CO monitor at the Kansas City near-roadway monitoring site once that site has been identified. Consult section 7.2 for a discussion about the status of the Kansas City area near-roadway monitoring site planning process.

## **9. Rural National Core**

EPA expressed interest in pursuing the installation and operation of a rural NCore site in Missouri. Department staff suggested 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. EPA is considering providing up-front one-time equipment purchases and continued operation and maintenance funds to support this project. Since this project would be in addition to existing NCore monitoring requirements which the state of Missouri has satisfied at the Blair St. site, the department is waiting for EPA to identify specifically what funding will be available for this project before committing 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.

## 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

### 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.

### Code

### Description

IMPROVE	IMPROVE or IMPROVE Protocol
INDEX SITE	(not currently used by MO)
INDUSTRIAL	Used to indicate sites operated by an industry PQAQO
NATTS	National Air Toxics Trends Station
NON-EPA FEDERAL	(not currently used by MO)

NON-REGULATORY PAMS	Note use for NAAQS Compliance
PROPOSED N CORE QA COLLOCATED SLAMS	Collocated to Satisfy 40 CFR Part 58, Appendix A State or Local Air Monitoring Station
SPECIAL PURPOSE SUPLMNTL SPECIATION TRENDS SPECIATION	Special Purpose Monitoring Station (SPM or SPMS)
TRIBAL MONITORS	(not currently used by MO)
UNOFFICIAL PAMS	(not currently used by MO)

Monitoring Objective

Each monitor has a distinct objective such as providing real-time data for public awareness or use in determining compliance with regulations.

<u>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	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.

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

## *Missouri Ambient Air Monitoring Network*



<b>MIC</b>	<b>Microscale</b>	<b>1 to 100 square meters</b>
<b>MID</b>	<b>Middle</b>	<b>0.1 to 0.5 square kilometer</b>
<b>NBR</b>	<b>Neighborhood</b>	<b>0.5 to 4 square kilometers</b>
<b>REG</b>	<b>Regional</b>	<b>&gt; 10 square kilometers, rural</b>
<b>URB</b>	<b>Urban</b>	<b>4 to 50 square kilometers, city</b>
<b>COM</b>	<b>NAAQS Compliance</b>	
<b>MET</b>	<b>Meteorological Data</b>	
<b>N/A</b>	<b>Not Applicable</b>	
<b>NCore</b>	<b>National Multi-Pollutant Monitoring Stations</b>	
<b>NON-A</b>	<b>Non-Ambient Site</b>	
<b>NON-R</b>	<b>Non-Regulatory</b>	
<b>RES</b>	<b>Research</b>	
<b>SLAMS</b>	<b>State and Local Monitoring Stations</b>	
<b>SIP</b>	<b>State Implementation Plan</b>	
<b>SPEC</b>	<b>Speciation</b>	
<b>STA</b>	<b>State Standard</b>	
<b>SPM</b>	<b>Special Purpose Monitoring</b>	
<b>**</b>	<b>Monitor to be installed and operated at a later date</b>	
<b>^^</b>	<b>Monitoring Operations transferred from the Local Agencies to the State</b>	

## 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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Sulfur Dioxide	42401	Industrial	3	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	
Sulfur Dioxide Max 5-min Avg	42406	Industrial	3	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	

### Wildwood Lane

AQS Site Number **29-077-0040**

1234 Wildwood Lane, Springfield, MO 65804

**Latitude:** 37.108889 **AQCR:** 139 SW Missouri

**Longitude:** -93.252778 **MSA:** 7920 Springfield, MO

**Elevation (ft):** 1231

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

# 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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	
Lead (TSP) - LC FRM/FEM	14129	Industrial	1	<input type="checkbox"/>	1/6	MID	COM	105	ug/m <sup>3</sup> -LC	113	Doe Run Mass Spectra ICAP	
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	

## Doe Run Buick - North #5

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

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

**Latitude:** 37.654167      **AQCR:** 138      SE Missouri

**Longitude:** -91.130556      **MSA:** 0000      Not in a MSA

**Elevation (ft):**

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

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

**Latitude:** 37.625278      **AQCR:** 138      SE Missouri

**Longitude:** -91.129167      **MSA:** 0000      Not in a MSA

**Elevation (ft):**

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

# Doe Run Glover

## Doe Run Glover - Big Creek #5

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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	
Lead (TSP) - LC FRM/FEM	14129	Industrial	1	<input type="checkbox"/>	1/6	MID	COM	105	ug/m <sup>3</sup> -LC	110	Pima Co., AZ Mass Spectra ICAP	
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	

## Doe Run Glover - Post Office #2

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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	Industrial	1	<input checked="" type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	
Lead (TSP) - LC FRM/FEM	14129	Industrial	1	<input checked="" type="checkbox"/>	1/6	MID	COM	105	ug/m <sup>3</sup> -LC	110	Pima Co., AZ Mass Spectra ICAP	
Sample Baro Pressure	68108	Industrial	1	<input checked="" type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	

# Doe Run Herculaneum

## Herculaneum, Broad Street

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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	SIP	017	deg C	780	Instrumental	NON-A
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	NON-A
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/6	N/A	SIP	059	mm (Hg)	780	Instrumental	NON-A

## Herculaneum, Church Street

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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	Industrial	1	<input checked="" type="checkbox"/>	1/3	N/A	COM	017	deg C	780	Instrumental	
Lead (TSP) - LC FRM/FEM 14129		Industrial	1	<input checked="" type="checkbox"/>	1/3	NBR	COM	105	ug/m <sup>3</sup> -LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	
Sample Baro Pressure	68108	Industrial	1	<input checked="" type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	780	Instrumental	

## 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>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	Industrial	1	<input checked="" type="checkbox"/>	1/1	N/A	COM	017	deg C	780	Instrumental	
Lead (TSP) - LC FRM/FEM 14129		Industrial	1	<input checked="" type="checkbox"/>	1/1	MID	COM	105	ug/m <sup>3</sup> -LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	
Sample Baro Pressure	68108	Industrial	1	<input checked="" type="checkbox"/>	1/1	N/A	COM	059	mm (Hg)	780	Instrumental	

## 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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	780	Instrumental	
Lead (TSP) - LC FRM/FEM 14129		Industrial	1	<input type="checkbox"/>	1/3	NBR	COM	105	ug/m <sup>3</sup> -LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP	
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	780	Instrumental	

## 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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
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Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/1	N/A	COM	017	deg C	780	Instrumental
Lead (TSP) - LC FRM/FEM 14129		Industrial	1	<input type="checkbox"/>	1/1	NBR	COM	105	ug/m^3-LC	189	Inter-Mountain Lab, Inc Mass Spectra ICAP
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/1	N/A	COM	059	mm (Hg)	780	Instrumental

## 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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	
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	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	

## Ursuline North

AQS Site Number **29-099-9006**

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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Ambient Temperature	68105	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	
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	
Sample Baro Pressure	68108	Industrial	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	

# Environmental Services

## Alba

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

20400 Millwood Rd., Alba, MO 64755

**Latitude:** 37.2348      **AQCR:** 139      SW Missouri

**Longitude:** -94.42475      **MSA:** 3710      Joplin, MO

**Elevation (ft):** 965

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Acceptable PM2.5 AQI/SPEC	88502	SPEC	6	<input type="checkbox"/>	1/3	NBR	RES	105	ug/m <sup>3</sup> -LC	810	METONE SASS	
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m <sup>3</sup> -LC	790	FDMS- Gravimetric 1405- DF	
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	NBR	MET	059	mm (Hg)	014	Instrumental	
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	NBR	MET	017	deg C	040	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m <sup>3</sup> -LC	790	FDMS- Gravimetric 1405- DF	

PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FDMS-Gravimetric 1405-DF
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	NBR	MET	019	%humidity	020	Instrumental
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation

### 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

Pollutant	AQS Code	Monitor-Type	POC	Col	Freq	Scale	Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Status
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	803	Off-Site Avg Temperature	
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	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	803	Off-Site Avg Pressure	

### Blair Street

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

3247 Blair Street, St. Louis, MO 63107

**Latitude:** 38.65640 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.19845 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 450

Pollutant	AQS Code	Monitor-Type	POC	Col	Freq	Scale	Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Status
Acceptable PM2.5 AQI/SPEC	88502	SPEC	6	<input type="checkbox"/>	1/3	NBR	RES	105	ug/m^3-LC	810	METONE SASS	

Acceptable PMCoarse - LC 86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	
Ambient Temperature	68105	SLAMS	3	<input checked="" type="checkbox"/>	1/3	N/A	COM	017	deg C	127	Lo-Vol R&P 2025 Sequential
Ambient Temperature	68105	SLAMS	1	<input checked="" type="checkbox"/>	1/1	N/A	COM	017	deg C	118	Lo-Vol R&P 2025 Sequential
Ambient Temperature	68105	SLAMS	5	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental
Baro Pressure	64101	SLAMS	1	<input type="checkbox"/>	1	NBR	MET	059	mm (Hg)	014	Instrumental
Black Carbon PM2.5 STP	84313	SLAMS	1	<input type="checkbox"/>	1	NBR	RES	001	ug/m^3	866	Magee Scientific AE21ER
Carbon Monoxide	42101	NCORE	1	<input type="checkbox"/>	1	NBR	COM	007	ppm	055	Gas Filter Corr Thermo Electron
Indoor Temperature	62107	SLAMS	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging
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	
Nitric Oxide	42601	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	591	Chemiluminescence
Outdoor Temperature	62101	SLAMS	1	<input type="checkbox"/>	1	NBR	MET	017	deg C	040	Electronic Averaging
Ozone	44201	NCORE	1	<input checked="" type="checkbox"/>	1	NBR	COM	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
PM10 - LC	85101	SPM	1	<input checked="" type="checkbox"/>	1/3	NBR	COM	105	ug/m^3-LC	127	Lo-Vol R&P 2025 Sequential
PM10 - Total STP	81102	SLAMS	1	<input checked="" type="checkbox"/>	1/3	NBR	COM	001	ug/m^3	127	Lo-Vol R&P 2025 Sequential
PM2.5 - LC	88101	SLAMS	1	<input checked="" type="checkbox"/>	1/1	NBR	COM	105	ug/m^3-LC	118	Lo-Vol R&P 2025 Sequential
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FDMS-Gravimetric 1405-DF
PM2.5 Tot Atmospheric	88500	SLAMS	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF

PM2.5 Volatile Channel	88503	SLAMS	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF
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
Reactive Oxides of N (NOY)	42600	NCORE	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	591	Chemiluminescence
Relative Humidity	62201	SLAMS	1	<input type="checkbox"/>	1	NBR	MET	019	%humidity	020	Instrumental
Sample Baro Pressure	68108	SLAMS	1	<input checked="" type="checkbox"/>	1/1	N/A	COM	059	mm (Hg)	118	Lo-Vol R&P 2025 Sequential
Sample Baro Pressure	68108	SLAMS	5	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental
Sample Baro Pressure	68108	SLAMS	3	<input checked="" type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	127	Lo-Vol R&P 2025 Sequential
Solar Radiation	63301	SLAMS	1	<input type="checkbox"/>	1	NBR	MET	079	W/m^2	011	Instrumental
Sulfur Dioxide	42401	NCORE	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	600	Ultraviolet Fluorescence API 100 EU
Sulfur Dioxide Max 5-min Avg	42406	NCORE	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	600	Ultraviolet Fluorescence API 100 EU
Wind Direction - Resultant	61104	SLAMS	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation
Wind Speed - Resultant	61103	SLAMS	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation

## 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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Acceptable PM2.5 AQI/SPEC	88502	SPEC	5	<input type="checkbox"/>	1/6	REG	RES	105	ug/m^3-LC	810	METONE SASS	
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	

Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	REG	COM	007	ppm	047	Ultraviolet Photometric
Solar Radiation	63301	SPM	1	<input type="checkbox"/>	1	REG	MET	079	W/m^2	011	Instrumental
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	REG	MET	014	deg	020	Vector Summation
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	REG	MET	012	mph	020	Vector Summation

**Branch Street**

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

100 Branch St., St. Louis, MO 63102

**Latitude:** 38.653716 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.186816 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 422

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	MID	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	^^
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	118	Lo-Vol R&P 2025 Sequential	^^
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	NBR	MET	059	mm (Hg)	014	Instrumental	
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	NBR	MET	017	deg C	040	Electronic Averaging	^^
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	MID	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	^^
PM10 - Total STP	81102	SLAMS	3	<input type="checkbox"/>	1	MID	COM	001	ug/m^3	079	R&P SA246B TEOM	^^
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	MID	COM	105	ug/m^3-LC	182	FMDS-Gravimetric 1405-DF	^^
PM2.5 - LC	88101	SLAMS	1	<input type="checkbox"/>	1/3	MID	COM	105	ug/m^3-LC	118	Lo-Vol R&P 2025 Sequential	^^
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	MID	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	^^

PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	MID	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	^^
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	NBR	MET	019	%humidity	020	Instrumental	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	118	Lo-Vol R&P 2025 Sequential	^^
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	^^
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	^^

### 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>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SPM	1	<input checked="" type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	

### 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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Ambient Temperature	68105	SPM	1	<input checked="" type="checkbox"/>	1/1	N/A	COM	017	deg C	780	Instrumental	

Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging
Lead (TSP) - LC FRM/FEM 14129		SLAMS	1	<input checked="" type="checkbox"/>	1/6	MID	COM	105	ug/m^3-LC	192	Inductive Coupled Plasma Spectrometry
Sample Baro Pressure	68108	SPM	1	<input checked="" type="checkbox"/>	1/1	N/A	COM	059	mm (Hg)	780	Instrumental
Sulfur Dioxide	42401	SLAMS	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent
Sulfur Dioxide Max 5-min Avg	42406	SLAMS	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation

## Carthage

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

530 Juniper, Carthage, MO 64836

**Latitude:** 37.21000 **AQCR:** 139 SW Missouri

**Longitude:** -94.307778 **MSA:** 3710 Joplin, MO

**Elevation (ft):** 986

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
PM10 - Total STP	81102	SLAMS	3	<input type="checkbox"/>	1	MID	COM	001	ug/m^3	079	R&P SA246B TEOM	
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	

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

**Latitude:** 37.6900      **AQCR:** 139      SW Missouri

**Longitude:** -94.035      **MSA:** 0000      Not in a MSA

**Elevation (ft):** 965

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	REG	COM	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric 1405-DF	**
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	NBR	MET	059	mm (Hg)	014	Instrumental	**
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	REG	MET	017	deg C	040	Electronic Averaging	
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	REG	COM	007	ppm	047	Ultraviolet Photometric	
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	REG	COM	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric 1405-DF	**
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	REG	COM	105	ug/m <sup>3</sup> -LC	182	FMDS-Gravimetric 1405-DF	**
PM2.5 - LC	88101	SLAMS	3	<input type="checkbox"/>	1	REG	COM	105	ug/m <sup>3</sup> -LC	181	PM2.5 VSCC FEM	
PM2.5 Tot Atmospheric	88500	NON-R	3	<input type="checkbox"/>	1	REG	AQI	105	ug/m <sup>3</sup> -LC	761	PM2.5 VSCC FDMS	
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	REG	AQI	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric 1405-DF	**
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	REG	AQI	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric 1405-DF	**
PM2.5 Volatile Channel	88503	NON-R	3	<input type="checkbox"/>	1	REG	AQI	105	ug/m <sup>3</sup> -LC	761	PM2.5 VSCC FDMS	
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	NBR	MET	019	%humidity	020	Instrumental	**
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	REG	MET	014	deg	020	Vector Summation	

Wind Speed - Resultant 61103 SPM 1  1 REG MET 012 mph 020 Vector Summation

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	URB	COM	007	ppm	047	Ultraviolet Photometric	
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	URB	MET	014	deg	020	Vector Summation	
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	URB	MET	012	mph	020	Vector Summation	

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	803	Off-Site Avg Temperature	
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	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	803	Off-Site Avg Pressure	

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	

Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Ambient Temperature	68105	SPM	1	<input checked="" type="checkbox"/>	1/6	N/A	COM	017	deg C	811	Thermo/R&P 2025 PM10	
Lead PM10 LC - FRM/FEM	85129	SPM	1	<input checked="" type="checkbox"/>	1/6	MID	COM	105	ug/m^3-LC	811	Thermo/R&P 2025 PM10	
Sample Baro Pressure	68108	SPM	1	<input checked="" type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	811	Thermo/R&P 2025 PM10	

**Forest Park (To include Precipitation)** **AQS Site Number 29-510-0094**

McKinley Dr., St. Louis, MO 63110

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

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

**Elevation (ft):** 000

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	MIC	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	**
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	MIC	MET	059	mm (Hg)	014	Instrumental	**
Black Carbon PM2.5 STP	84313	SPM	1	<input type="checkbox"/>	1	MIC	COM	001	ug/m^3	866	Magee Scientific AE21ER	**
Carbon Monoxide	42101	SPM	1	<input type="checkbox"/>	1	MIC	COM	007	ppm	054	Non-dispersive Infrared	**

Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	**
Nitrogen Dioxide	42602	SLAMS	1	<input type="checkbox"/>	1	MIC	COM	008	ppb	074	Chemiluminescence	**
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	MIC	MET	017	deg C	040	Electronic Averaging	**
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	MIC	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	**
PM2.5 - LC	88101	SPM	4	<input type="checkbox"/>	1	MIC	COM	105	ug/m^3-LC	182	FDMS-Gravimetric 1405-DF	**
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	MIC	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	**
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	MIC	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	**
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	MIC	MET	019	%humidity	020	Instrumental	**
Solar Radiation	63301	SPM	1	<input type="checkbox"/>	1	MIC	MET	079	W/m^2	011	Instrumental	**
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	MIC	MET	014	deg	020	Vector Summation	**
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	MIC	MET	012	mph	020	Vector Summation	**

**Front Street (PM10:TEOM to replace Lo-Vol)**

**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

<b>Pollutant</b>	<b>AQS Code</b>	<b>Monitor-Type</b>	<b>POC</b>	<b>Col</b>	<b>Freq</b>	<b>Scale</b>	<b>Obj</b>	<b>Unit-Code</b>	<b>Unit</b>	<b>Method-Code</b>	<b>Method</b>	<b>Monitor-Status</b>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	127	Lo-Vol R&P 2025 Sequential	
PM10 - LC	85101	SPM	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m^3-LC	127	Lo-Vol R&P 2025 Sequential	
PM10 - Total STP	81102	SLAMS	3	<input type="checkbox"/>	1	NBR	COM	001	ug/m^3	079	R&P SA246B TEOM	**

PM10 - Total STP	81102	SLAMS	1	<input type="checkbox"/>	1/6	NBR	COM	001	ug/m^3	127	Lo-Vol R&P 2025 Sequential
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	127	Lo-Vol R&P 2025 Sequential

## 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

Pollutant	AQS Code	Monitor-Type	POC	Col	Freq	Scale	Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Status
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	803	Off-Site Avg Temperature	
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	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	803	Off-Site Avg Pressure	

## 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

Pollutant	AQS Code	Monitor-Type	POC	Col	Freq	Scale	Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Status
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	780	Instrumental	
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	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	780	Instrumental	

**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

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	SPM	1	<input checked="" type="checkbox"/>	1/1	N/A	COM	017	deg C	780	Instrumental	
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Lead (TSP) - LC FRM/FEM 14129		SLAMS	1	<input checked="" type="checkbox"/>	1/1	MID	COM	105	ug/m <sup>3</sup> -LC	192	Inductive Coupled Plasma Spectrometry	
Sample Baro Pressure	68108	SPM	1	<input checked="" type="checkbox"/>	1/1	N/A	COM	059	mm (Hg)	780	Instrumental	
Sulfur Dioxide	42401	SLAMS	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	
Sulfur Dioxide Max 5-min Avg	42406	SPM	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	

**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>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	780	Instrumental	
Lead (TSP) - LC FRM/FEM 14129		SLAMS	1	<input type="checkbox"/>	1/3	NBR	COM	105	ug/m <sup>3</sup> -LC	192	Inductive Coupled Plasma Spectrometry	

Sample Baro Pressure 68108 SPM 1  1/3 N/A COM 059 mm (Hg) 780 Instrumental

**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	Col	Freq	Scale	Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Status
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	URB	COM	007	ppm	047	Ultraviolet Photometric	^^

**Ladue (PM2.5;DF to replace VSCC)**

**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	Col	Freq	Scale	Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Status
Acceptable PM2.5 AQI/SPEC	88502	NON-R	3	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	761	PM2.5 VSCC FDMS	^^
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	**
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	NBR	MET	059	mm (Hg)	014	Instrumental	**
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	^^
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	NBR	MET	017	deg C	040	Electronic Averaging	^^
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	**
PM2.5 - LC	88101	SLAMS	3	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	181	PM2.5 VSCC FEM	^^

PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FDMS-Gravimetric 1405-DF	**
PM2.5 Tot Atmospheric	88500	NON-R	3	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	761	PM2.5 VSCC FDMS	^^
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	**
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	**
PM2.5 Volatile Channel	88503	NON-R	3	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	761	PM2.5 VSCC FDMS	^^
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	NBR	MET	019	%humidity	020	Instrumental	**
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	^^
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	^^

## Liberty

AQS Site Number **29-047-0005**

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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Acceptable PM2.5 AQI/SPEC	88502	SPEC	5	<input type="checkbox"/>	1/3	NBR	RES	105	ug/m^3-LC	810	METONE SASS	
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	NBR	MET	059	mm (Hg)	014	Instrumental	
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	URB	MET	017	deg C	040	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	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
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FDMS-Gravimetric 1405-DF
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	NBR	MET	019	%humidity	020	Instrumental
Solar Radiation	63301	SPM	1	<input type="checkbox"/>	1	URB	MET	079	W/m^2	011	Instrumental
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	URB	MET	014	deg	020	Vector Summation
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	URB	MET	012	mph	020	Vector Summation

## 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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Nitric Oxide	42601	SPM	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	074	Chemiluminescence	^^
Nitrogen Dioxide	42602	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	074	Chemiluminescence	^^
Oxides of Nitrogen	42603	SPM	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	074	Chemiluminescence	^^
PM10 - Total STP	81102	SLAMS	3	<input type="checkbox"/>	1	NBR	COM	001	ug/m^3	079	R&P SA246B TEOM	^^
Sulfur Dioxide	42401	SLAMS	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	060	Pulsed Fluorescent	^^

Sulfur Dioxide Max 5-min Avg 42406 SLAMS 1  1 NBR COM 008 ppb 060 Pulsed Fluorescent ^^

**Mark Twain State Park** 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

Pollutant	AQS Code	Monitor-Type	POC	Col	Freq	Scale	Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Status
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input type="checkbox"/>	1	REG	COM	007	ppm	047	Ultraviolet Photometric	
PM10 - Total STP	81102	SPM	3	<input type="checkbox"/>	1	REG	SIP	001	ug/m^3	079	R&P SA246B TEOM	
Sulfur Dioxide	42401	SPM	1	<input type="checkbox"/>	1	NBR	COM	008	ppb	060	Pulsed Fluorescent	**
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	REG	MET	014	deg	020	Vector Summation	
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	REG	MET	012	mph	020	Vector Summation	

**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

Pollutant	AQS Code	Monitor-Type	POC	Col	Freq	Scale	Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Status
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	^^
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	NBR	MET	015	deg F	040	Electronic Averaging	^^
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	^^

Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	^^
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	^^

**Missouri State University (PM10:TEOM to replace Lo-Vol) AQS Site Number 29-077-0032**

710 S. Holland St. at Madison St., Springfield, MO 65806

**Latitude:** 37.199473 **AQCR:** 139 SW Missouri

**Longitude:** -93.284681 **MSA:** 7920 Springfield, MO

**Elevation (ft):** 1316

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	
Ambient Temperature	68105	SPM	3	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	127	Lo-Vol R&P 2025 Sequential	^^
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	NBR	MET	059	mm (Hg)	014	Instrumental	
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	NBR	MET	017	deg C	040	Electronic Averaging	
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	
PM10 - Total STP	81102	SLAMS	1	<input type="checkbox"/>	1/6	NBR	COM	001	ug/m^3	127	Lo-Vol R&P 2025 Sequential	^^
PM10 - Total STP	81102	SLAMS	3	<input type="checkbox"/>	1	NBR	COM	001	ug/m^3	079	R&P SA246B TEOM	**
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FDMS-Gravimetric 1405-DF	
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	NBR	MET	019	%humidity	020	Instrumental	

Sample Baro Pressure 68108 SPM 3  1/6 N/A COM 059 mm (Hg) 127 Lo-Vol R&P 2025 ^^  
Sequential

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	

**Oakville**

**AQS Site Number 29-189-0015**

6115 Frontenac Pointe Ct., Oakville, MO 63129

**Latitude:** 38.45671 **AQCR:** 070 Metropolitan St. Louis

**Longitude:** -90.327477 **MSA:** 7040 St. Louis, MO-IL

**Elevation (ft):** 477

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor-Type</i>	<i>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	^^
PM10 - Total STP	81102	SLAMS	3	<input type="checkbox"/>	1	MID	COM	001	ug/m^3	079	R&P SA246B TEOM	^^
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	^^
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	^^

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	803	Off-Site Avg Temperature	
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	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	803	Off-Site Avg Pressure	

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	URB	COM	007	ppm	047	Ultraviolet Photometric	

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	^^

Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	NBR	MET	017	deg C	040	Electronic Averaging	^^
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	^^
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	^^
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	^^

## Park Hills

AQS Site Number **29-187-0006**

105 Industrial Dr., Park Hills, MO 63601

**Latitude:** 37.86485      **AQCR:** 138      SE Missouri  
**Longitude:** -90.50804      **MSA:** 0000      Not in a MSA  
**Elevation (ft):** 743

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

## 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

Pollutant	AQS Code	Monitor-Type	POC	Col	Freq	Scale	Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Status
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	
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	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	
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	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	

**Richards Gebaur - South (PM2.5-DF to replace VSCC)**

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Acceptable PMCoarse - LC 86502		SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS- Gravimetric 1405- DF	**
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	NBR	MET	059	mm (Hg)	014	Instrumental	**
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	NBR	MET	017	deg C	040	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	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	**
PM2.5 - LC	88101	SLAMS	3	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	181	PM2.5 VSCC FEM	

PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	**
PM2.5 Tot Atmospheric	88500	NON-R	3	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	761	PM2.5 VSCC FDMS	
PM2.5 Volatile Channel	88503	NON-R	3	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	761	PM2.5 VSCC FDMS	
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	**
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	NBR	MET	019	%humidity	020	Instrumental	**
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	

## 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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit-Code</i>	<i>Unit</i>	<i>Method-Code</i>	<i>Method</i>	<i>Monitor-Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	

## 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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	

## South Broadway

AQS Site Number **29-510-0007**

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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric 1405-DF	^^
Baro Pressure	64101	SLAMS	1	<input type="checkbox"/>	1	NBR	MET	059	mm (Hg)	014	Instrumental	
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric 1405-DF	^^
PM2.5 - LC	88101	SLAMS	4	<input type="checkbox"/>	1	NBR	COM	105	ug/m <sup>3</sup> -LC	182	FDMS-Gravimetric 1405-DF	^^
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric 1405-DF	^^

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

### 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

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

### 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

Pollutant	AQS Code	Monitor-Type	POC	Col	Freq	Scale	Obj	Unit-Code	Unit	Method-Code	Method	Monitor-Status
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	017	deg C	803	Off-Site Avg Temperature	
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	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	803	Off-Site Avg Pressure	

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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Acceptable PMCoarse - LC	86502	SPM	1	<input checked="" type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	
Ambient Temperature	68105	SPM	3	<input checked="" type="checkbox"/>	1/3	N/A	COM	017	deg C	127	Lo-Vol R&P 2025 Sequential	
Baro Pressure	64101	SPM	1	<input checked="" type="checkbox"/>	1	NBR	MET	059	mm (Hg)	014	Instrumental	
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	NBR	MET	017	deg C	040	Electronic Averaging	
PM10 - LC	85101	SPM	5	<input checked="" type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	
PM10 - LC	85101	SPM	1	<input checked="" type="checkbox"/>	1/3	NBR	COM	105	ug/m^3-LC	127	Lo-Vol R&P 2025 Sequential	
PM10 - Total STP	81102	SLAMS	1	<input checked="" type="checkbox"/>	1/3	NBR	COM	001	ug/m^3	127	Lo-Vol R&P 2025 Sequential	
PM2.5 - LC	88101	SLAMS	4	<input checked="" type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	182	FMDS-Gravimetric 1405-DF	
PM2.5 Tot Atmospheric	88500	SPM	1	<input checked="" type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	
PM2.5 Volatile Channel	88503	SPM	1	<input checked="" type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	790	FDMS-Gravimetric 1405-DF	
Relative Humidity	62201	SPM	1	<input checked="" type="checkbox"/>	1	NBR	MET	019	%humidity	020	Instrumental	
Sample Baro Pressure	68108	SPM	3	<input checked="" type="checkbox"/>	1/3	N/A	COM	059	mm (Hg)	127	Lo-Vol R&P 2025 Sequential	

**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

<i>Pollutant</i>	<i>AQS Code</i>	<i>Monitor- Type</i>	<i>POC</i>	<i>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	NBR	COM	007	ppm	047	Ultraviolet Photometric	
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation	
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation	

**Troost (PM2.5:DF to replace VSCC)**

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Acceptable PM2.5 AQI/SPEC	88502	NON-R	3	<input type="checkbox"/>	1	NBR	AQI	105	ug/m^3-LC	761	PM2.5 VSCC FDMS	
Acceptable PMCoarse - LC	86502	SPM	1	<input type="checkbox"/>	1	NBR	COM	105	ug/m^3-LC	790	FDMS- Gravimetric 1405- DF	**
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/1	N/A	COM	017	deg C	118	Lo-Vol R&P 2025 Sequential	
Ambient Temperature	68105	SPM	3	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	127	Lo-Vol R&P 2025 Sequential	
Baro Pressure	64101	SPM	1	<input type="checkbox"/>	1	NBR	MET	059	mm (Hg)	014	Instrumental	**
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	

Nitric Oxide	42601	SPM	1	<input type="checkbox"/>	1	URB	COM	008	ppb	074	Chemiluminescence	
Nitrogen Dioxide	42602	SLAMS	1	<input type="checkbox"/>	1	URB	COM	008	ppb	074	Chemiluminescence	
Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	NBR	MET	017	deg C	040	Electronic Averaging	
Oxides of Nitrogen	42603	SPM	1	<input type="checkbox"/>	1	URB	COM	008	ppb	074	Chemiluminescence	
PM10 - LC	85101	SPM	5	<input type="checkbox"/>	1	NBR	COM	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric 1405-DF	**
PM10 - LC	85101	SPM	1	<input type="checkbox"/>	1/6	NBR	COM	105	ug/m <sup>3</sup> -LC	127	Lo-Vol R&P 2025 Sequential	
PM10 - Total STP	81102	SLAMS	1	<input type="checkbox"/>	1/6	NBR	COM	001	ug/m <sup>3</sup>	127	Lo-Vol R&P 2025 Sequential	
PM2.5 - LC	88101	SLAMS	3	<input checked="" type="checkbox"/>	1	NBR	COM	105	ug/m <sup>3</sup> -LC	181	PM2.5 VSCC FEM	
PM2.5 - LC	88101	SLAMS	4	<input checked="" type="checkbox"/>	1	NBR	COM	105	ug/m <sup>3</sup> -LC	182	FMDS-Gravimetric 1405-DF	**
PM2.5 Tot Atmospheric	88500	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric 1405-DF	**
PM2.5 Tot Atmospheric	88500	NON-R	3	<input type="checkbox"/>	1	NBR	AQI	105	ug/m <sup>3</sup> -LC	761	PM2.5 VSCC FDMS	
PM2.5 Volatile Channel	88503	SPM	1	<input type="checkbox"/>	1	NBR	AQI	105	ug/m <sup>3</sup> -LC	790	FDMS-Gravimetric 1405-DF	**
PM2.5 Volatile Channel	88503	NON-R	3	<input type="checkbox"/>	1	NBR	AQI	105	ug/m <sup>3</sup> -LC	761	PM2.5 VSCC FDMS	
Relative Humidity	62201	SPM	1	<input type="checkbox"/>	1	NBR	MET	019	%humidity	020	Instrumental	**
Sample Baro Pressure	68108	SPM	3	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	127	Lo-Vol R&P 2025 Sequential	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/1	N/A	COM	059	mm (Hg)	118	Lo-Vol R&P 2025 Sequential	
Sulfur Dioxide	42401	SLAMS	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	
Sulfur Dioxide Max 5-min Avg	42406	SLAMS	1	<input type="checkbox"/>	1	MID	COM	008	ppb	060	Pulsed Fluorescent	

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Ambient Temperature	68105	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	017	deg C	780	Instrumental	
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	
Sample Baro Pressure	68108	SPM	1	<input type="checkbox"/>	1/6	N/A	COM	059	mm (Hg)	780	Instrumental	

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	URB	COM	007	ppm	047	Ultraviolet Photometric	

**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>Col</i>	<i>Freq</i>	<i>Scale</i>	<i>Obj</i>	<i>Unit- Code</i>	<i>Unit</i>	<i>Method- Code</i>	<i>Method</i>	<i>Monitor- Status</i>
Indoor Temperature	62107	SPM	1	<input type="checkbox"/>	1	N/A	MET	017	deg C	013	Electronic Averaging	

Outdoor Temperature	62101	SPM	1	<input type="checkbox"/>	1	NBR	MET	017	deg C	040	Electronic Averaging
Ozone	44201	SLAMS	1	<input checked="" type="checkbox"/>	1	URB	COM	007	ppm	047	Ultraviolet Photometric
Solar Radiation	63301	SPM	1	<input type="checkbox"/>	1	NBR	MET	079	W/m^2	011	Instrumental
Wind Direction - Resultant	61104	SPM	1	<input type="checkbox"/>	1	NBR	MET	014	deg	020	Vector Summation
Wind Speed - Resultant	61103	SPM	1	<input type="checkbox"/>	1	NBR	MET	012	mph	020	Vector Summation