

2018 Louisiana Annual Monitoring Network Plan



**Louisiana Department of Environmental Quality
Office of Environmental Assessment
Air Planning and Assessment Division**

April 27, 2018

The Louisiana Department of Environmental Quality (LDEQ) maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A and B, utilizes the methodology provided for each monitor in accordance with Appendix C, designs its network in accordance with Appendix D, and locates its sites to meet all requirements of Appendix E. Site conditions are monitored on a weekly basis as part of required site operations. Any situation that may cause the siting criteria listed in 40 CFR Part 58 Appendix E to be in question is investigated and a solution determined at that time. The Louisiana Annual Monitoring Network Plan that follows covers the fiscal year of July 2018 through June 2019 with knowledge gained as of May 2018.

LDEQ's Air Field Services section operates State and Local Ambient Monitoring Stations (SLAMS), Photochemical Assessment Monitoring Stations (PAMS), Special Purpose Monitoring Stations (SPMS), and a National Core Network (NCore) Ambient Air Monitoring Station as a requirement of the Code of Federal Regulations (CFR), Title 40, Part 58. These stations measure ambient air concentrations of those pollutants for which standards have been established in 40 CFR Part 50. Data acquired from the stations are submitted into the EPA's Air Quality System (AQS) where it is compared to the National Ambient Air Quality Standards (NAAQS). Access to this information is available through EPA's website (www.epa.gov). Conformance of the network to 40 CFR 58 Appendix D (Network Design Criteria) and Appendix E (Probe and Path Siting Criteria) is determined using an Annual Review of the air quality surveillance system, as required for each state in 40 CFR 58.10. The location for this ruling is available in Docket ID No. EPA-HQ-OAR-2004-0018 in the <http://www.regulations.gov> index. The review is also used to ensure that the network is continuing to meet the objectives of the air monitoring program. The three basic objectives of the air monitoring program follow:

1. Provide air pollution data to the general public in a timely manner. Data can be presented to the public in a number of different ways including through air quality maps, newspapers, internet sites, and as a part of weather forecasts and public advisories.
2. Support compliance with ambient air quality standards and emissions strategy development. Data from the monitors for National Ambient Air Quality Standards (NAAQS) pollutants will be used for comparing an area's air pollution levels against the NAAQS. Data of various types can be used in the development of attainment and maintenance plans. Data can also be used to track trends to determine the impact of air pollution abatement control measures on improving air quality. In monitoring locations near major air pollution sources, source-oriented monitoring data can provide insight into how well industrial sources are controlling their pollutant emissions.
3. Support for air pollution research studies such as health effects assessments.

This review has several goals:

- Determine if the network requires any modifications to continue to meet its monitoring objective and data needs (through termination of existing stations, relocation of stations, or establishment of new stations); and
- Investigate ways to improve the network to ensure that it provides adequate, representative, and useful air quality data.

Monitoring Plans for July 2018-June 2019

Under EPA's NCore design guidelines, the state of Louisiana is required to operate one NCore level 2 site, which is the Capitol site (AQS# AQS # 220330009). The remaining sites in the state will all be PAMS, SLAMS, Speciation Trends Network (STN), or SPMs. Table A summarizes number and type of monitors located in each Metropolitan Statistical Area (MSA) population. Table B list specific information about analytes monitored at each site and the MSA covered by this location. Finally, Table C lists information regarding the PAMS network. The PAMS network plan exceeds the monitoring requirements with the air monitoring stations at Capitol (AQS# 22-033-0009) and Dutchtown (AQS# 22-005-0004) as PAMS sites.

Summary of Changes

Update

The 2017 Louisiana Annual Monitoring Network Plan was updated on October 30, 2017. This update was issued to revise the Plan text and Table B to reflect the characterization of the five new sulfur dioxide monitors as source-oriented ambient air monitors and SLAMS.

System Modifications

In an email dated February 14, 2018 and further clarified in an email dated February 16, 2018, LDEQ requested three system modifications as detailed below:

1. LDEQ requested permission from Region 6 to relocate the PM2.5 Sequential FRM located at Marrero Site (AQS#220512001) from its current location at Patriot St. and Allo St., Marrero, LA a distance of approximately 1.7 miles northwest to a location on Marrero Rd. just north of 4th St. This new site meets all siting criteria and is better situated for additional monitoring that the Department wishes to conduct.
2. LDEQ requested permission to move the Carville site (AQS #220470012) a distance of approximately 0.5 miles WNW. The property where the site is presently located has been sold and is currently being leased for sugarcane farming. Excessive rains and tractor activities have left the access road impossible to navigate at times and LDEQ has been requested to move the site by the owners. We have been able to secure a location that meets all siting criteria located on the Gillis W. Long Center that is operated by the Louisiana National Guard just down the street from our current site.

3. LDEQ requested permission to discontinue non-source oriented lead monitoring at our urban NCore site, Capital site (AQS # 220330009). Monitoring for lead at this site was initiated on January 4, 2013 providing us now with almost five years of complete data. EPA proposed to delete the requirement to measure lead at urban NCore sites due to uniformly low readings being measured at these sites. This was finalized and published in the Federal Register (Vol. 81, No. 59) on Monday, March 28, 2016. In the most recent 36 month period for which data is available (August 2014 to September 2017) the maximum 3-month rolling average reading was $0.0023 \mu\text{g}/\text{m}^3$ as compared to the NAAQS level of $0.15 \mu\text{g}/\text{m}^3$ or 1.5% of the NAAQS. The average 3-month rolling average for the same time period was $0.0006 \mu\text{g}/\text{m}^3$ or 0.4% of the NAAQS. Stakeholders and data users have been consulted regarding this request with a unanimous consensus that this monitoring should be discontinued at this time.

EPA Region 6 approved these changes in a letter dated March 22, 2018. The last Lead sample was taken at the Capitol site (AQS # 220330009) on 3/27/18. This information will be recorded in AQS once the sample data is received from the lab. LDEQ is working to get the PM2.5 Sequential FRM at Marrero moved as well as relocating the Carville site. A note will be added to the Air Quality System (AQS) once the modifications are implemented.

Sulfur Dioxide (SO₂)

In response to the Sulfur Dioxide Data Requirements Rule published on August 21, 2015, LDEQ and the facilities involved set up five (5) air monitoring sites near Sulfur Dioxide emitting facilities. These sites began collecting data in January 2017. Details of these SO₂ air monitoring sites can be found in Table B.

The names of two of these SO₂ sites have been changed. The Reynolds Site (AQS#22-019-0011) will now be named South Calcasieu and the Oxbow Site (AQS #22-033-0015) will now be named North Baton Rouge. These names were changed in AQS on April 10, 2018.

Additional Information

LDEQ plans to continue monitoring at the following sites due to situations in which the operation of these sites is above and beyond federal regulatory requirements due to the reasons discussed in each:

- Baker Lead (Pb) site (AQS # 22-033-0014) will continue operation until the demolition and remediation activities at the nearby Exide recycle site are completed and LDEQ will keep EPA informed of the status. Any future request for a system modification under 40 CFR 58.14 will be submitted to the Region

along with the appropriate technical analysis for any future planned discontinuation of the monitor.

- Continue to operate the Vinton (AQS #22-019-0009) PM2.5 FRM due to the proximity of industry in the area to provide oversight of ambient air conditions in this industrial area.
- Continue to operate PM2.5 FRM at Alexandria (AQS #22-079-0002) for regional background.
- Continue to operate the ozone monitor at the Monroe site (AQS #22-073-0004) to maintain ozone monitoring coverage for the Northeast regional area.
- Continue to operate the PM2.5 FRM monitor at Geismar (AQS # 22-047-0009) due to the proximity of industry in the area to provide oversight of ambient air conditions in this industrial area.
- Continue to operate the PM2.5 FRM monitors at Hammond (AQS #22-105-0001), Lafayette USGS (AQS # 22-055-0007), and Monroe (AQS # 22-073-0004) to provide oversight of ambient air conditions in these areas.
- Continue to operate the PM10 monitor at Lafayette USGS (AQS # 22-055-0007) due to high population density since this area is close to the next bracket in 40 CFR 58, App D, Table D-4 and could result in a higher PM10 monitor regulatory minimum once the 2020 census is released.
- Continue to operate the PM10 monitor at Shreveport Airport (AQS # 22-015-0008) due to high population density since this area is close to the next bracket in 40 CFR 58, App D, Table D-4 and could result in a higher PM10 monitor regulatory minimum once the 2020 census is released.

In the event of projected budget cuts for fiscal year 2018/2019, LDEQ and EPA will work closely to minimize the impact of the cuts and to ensure continued public health.

Table A. Type and Number of Monitors Per Metropolitan Statistical Area (MSA)

MSA/CSA Population ¹	MSA	Number of Monitors Currently Required	Number of Existing Monitors	Proposed Network
1,000,000-4,000,000	<i>New Orleans (population est. 1,275,762)</i>			
	Ozone	2	5	5
	Nitrogen Oxides	2	2	2
	Sulfur Dioxide	3	4	4
	Carbon Monoxide	1	1	1
	PM2.5 FRM	2	4 ²	4 ²
	PM2.5 continuous	2	4	4
	PM10	2-4	2	2
	Lead	1	1	1
	350,000-1,000,000	<i>Baton Rouge (population est. 834,159)</i>		
Ozone		6	9	9
Nitrogen Oxides		4	6	6
Trace Level reactive Nitrogen Oxides; NOy		2	2	2
Sulfur Dioxide		3	3	3
Trace Level Sulfur Dioxide		1	1	1
PM2.5 FRM		1	3	3
PM2.5 Speciation		1	1	1
PM2.5 continuous		1	2	2
PM10		1-2	1	1
PM Coarse		1	1	1
Lead		1	1	1
Carbon Monoxide		0	0	0
Trace Level Carbon Monoxide		1	1	1
PAMS		0	2	2

¹Metropolitan Statistical Area, July 1, 2017, United States Census Bureau
<https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk>

²Includes New Orleans Near Road Monitor PM2.5 FRM monitor

Table A. (cont.)

MSA/CSA Population ¹	MSA	Number of Monitors Currently Required	Number of Existing Monitors	Proposed Network
350,000-1,000,000	<i>Shreveport (population est. 440,993)</i>			
	Ozone	2	2	2
	Sulfur Dioxide	1	1	1
	PM2.5 FRM	1	1	1
	PM2.5 continuous	1	1	1
	PM2.5 Speciation	0	0	0
	PM10	0-1	1	1
350,000-1,000,000	<i>Lafayette (population est. 491,558)</i>			
	Ozone	2	2	2
	PM2.5 FRM	0	1	1
	PM2.5 continuous	0	1	1
50,000-350,000	<i>Lake Charles (population est. 209,357)</i>			
	Ozone	1	2	2
	Nitrogen Oxides	1	1	1
	Sulfur Dioxide	2	2	2
	PM2.5 FRM	0 ²	1	1
	PM2.5 continuous	0	1	1
50,000-350,000	<i>Alexandria (population est. 153,894)</i>			
	PM2.5 FRM	0 ²	1	1
	PM2.5 continuous	0	0	0
	Ozone	0	0	0
	PM10	0 ³	0 ³	0 ³

¹Metropolitan Statistical Area, July 1, 2017, United States Census Bureau

<https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk>

²No monitor required based on most recent 3-year design value <85% of NAAQS

³No monitor required based on 40 CFR 58 App D, Table D-4

Table A. (cont.)

MSA/CSA Population ¹	MSA	Number of Monitors Currently Required	Number of Existing Monitors	Proposed Network
50,000-350,000	<i>Monroe (population est. 178,445)</i>			
	Ozone	0	1	1
	Sulfur Dioxide	0	0	0
	PM2.5 FRM	0 ²	1	1
	PM2.5 continuous	0	0	0
	PM10	0 ³	0 ³	0 ³
50,000-350,000	<i>Houma / Thibodaux (population est. 210,512)</i>			
	Ozone	1	1	1
	PM2.5 FRM	0 ²	1	1
	PM2.5 continuous	0	1	1
	PM10	0 ³	0 ³	0 ³
50,000-350,000	<i>Hammond (population est. 132,497)</i>			
	PM2.5 FRM	1	2 ⁴	2 ⁴
	PM10	0 ³	0 ³	0 ³

¹Metropolitan Statistical Area, July 1, 2017, United States Census Bureau

<https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk>

²No monitor required based on most recent 3-year design value <85% of NAAQS

³No monitor required based on 40 CFR 58 App D, Table D-4

⁴Collocated FRM monitors

Table B. Site Specific Monitor Information

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Addis 22-121-0002	End of Sid Richardson	Lat= 30.327723 Long = -91.284108	SO2	SLAMS	U.V. Fluorescence	Continuous	Source Oriented	Neighbor- hood	Yes	Baton Rouge
Alexandria 22-079-0002	8105 Tom Bowman Dr	Lat = 31.177660 Long = -92.410600	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 3 rd day	General Background	Regional	Yes	Alexandria
Baker LSP 22-033-0014	1400 West Irene Rd	Lat = 30.593966 Long = -91.251946	Lead	SLAMS	Gravimetric	Every 6 th day	Source Oriented	Neighbor- hood	Yes	Baton Rouge
Bayou Plaquemine 22-047-0009	65180 Bellevue Rd.	Lat = 30.221021 Long = -91.315297	Ozone	SLAMS	U.V. Absorption	Continuous	High Concentration	Neighbor- hood	Yes	
			NOx	SLAMS	Chemilumin- escence	Continuous	High Pop. Density		Yes	
			NOy Trace- level	SLAMS	Chemilumin- escence	Continuous	High Pop. Density		No	
Capitol 22-033-0009	1061-A Leesville Ave.	Lat = 30.461981 Long = -91.179219	PM2.5	SLAMS NCORE	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every day	High Pop. Density	Neighbor- hood	Yes	Baton Rouge
			PM2.5	SLAMS	Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 12 th day	High Pop. Density		Yes	
			PM2.5	SLAMS NCORE	*Continuous BAM 1020 Meth. Code: 170	Continuous	High Pop. Density		Yes	
			PM10	SLAMS	*Continuous BAM 1020 Meth. Code: 122	Continuous	High Pop. Density		Yes	

*There are two BAM 1020 monitors at the Capitol Site (AQS # 22-033-0009), one that collects PM2.5 data and the other that collects PM10 data. The PM Coarse pollutant listed below is calculated using these two monitors.

Table B. Site Specific Monitor Information

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Capitol (cont.)	1061-A Leesville Ave.	Lat = 30.461981 Long = -91.179219	PM2.5	STN NCORE	Chemical Speciation SASS Teflon Gravimetric, Meth. Code 810 URG 3000N Meth. Code 839	24 hrs every 3 rd day	High Pop. Density	Neighborhood	No	Baton Rouge
			SO ₂ Trace-level	SLAMS NCORE	U.V. Fluorescence	Continuous	High Pop. Density		Yes	
			Ozone	SLAMS NCORE	U.V. Absorption	Continuous	High Pop. Density		Yes	
			CO Trace- level	PAMS NCORE	Nondispersive Infrared	Continuous	High Pop. Density		No	
			NO _x	SLAMS NCORE	Chemilumin- escence	Continuous	High Pop. Density RA40		Yes	
			NO _y Trace- level	PAMS NCORE	Chemilumin- escence	Continuous	High Pop. Density		No	
			VOC	PAMS SLAMS	Canisters; Trigger Canisters	8 3-hr samples daily during ozone season and every 6 th day otherwise, also 24 hrs every 6 th day; 25 min when triggered	High Pop. Density		No	
			PM Coarse	SLAMS NCORE	*Continuous BAM 1020 Meth. Code: 185	Continuous	High Pop. Density		No	
Carlyss 22-019-0002	Hwy 27 & Hwy 108	Lat= 30.140031 Long = -93.368268	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Neighborhood	Yes	Lake Charles
Carville 22-047-0012	Hwy 141	Lat= 30.203817 Long = -91.117269	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Regional	Yes	Baton Rouge

*There are two BAM 1020 monitors at the Capitol Site (AQS # 22-033-0009), one that collects PM2.5 data and the other that collects PM10 data. The PM Coarse pollutant listed above is calculated using these two monitors.

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Chalmette Vista 22-087- 0007	24 E. Chalmette Circle	Lat = 29.943164 Long = -89.976250	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 6 th day	Source Oriented	Neighborhood	Yes	New Orleans
			PM2.5	SPMS	*Continuous BAM 1020 Meth. Code: 170	Continuous	Source Oriented		No*	
			PM10	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	Source Oriented		Yes	
			SO ₂	SLAMS	U. V. Fluorescence	Continuous	Source Oriented		Yes	
			H2S	SPMS	U.V. Fluorescence	Continuous	Source Oriented		No	
Convent 22-093- 0002	St. James Courthouse Hwy 44 @ Canatella	Lat = 29.994729 Long = -90.817308	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Neighborhood	Yes	New Orleans
Dixie 22-017- 0001	Haygood Rd.	Lat = 32.683197 Long = -93.861382	Ozone	SLAMS	U.V. Absorption	Continuous	High	Urban	Yes	Shreveport
Dutchtown 22-005- 0004	11153 Kling Rd.	Lat = 30.229419 Long = -90.965517	Ozone	PAMS SLAMS	U.V. Absorption	Continuous	General Background	Neighborhood	Yes	Baton Rouge
			NO _x	PAMS SLAMS	Chemilumin- escence	Continuous	General Background		Yes	

* PM2.5 Continuous monitor used for AQI reporting purposes only due to exclusion of the comparison of the data from PM2.5 continuous BAM monitors to the NAAQS standards granted by EPA, Region 6 in a letter dated March 27, 2014. The BAM 1020 PM2.5 at the Capitol Site (AQS#22-033-0009) is the only one comparable to the NAAQS.

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Dutchtown (cont.)	11153 Kling Rd.	Lat = 30.229419 Long = -90.965517	VOC	PAMS SLAMS	Canisters; Trigger Canisters	4 3-hr cans every 3 rd day ozone season and 8 3-hr cans every 6 th day, 24 hour canister once every 6th day otherwise 25 min when triggered	Population Oriented	Neighbor- hood	Yes	Baton Rouge
French Settlement 22-063-0002	16627 Perrilloux Ln @ Hwy 16	Lat = 30.315175 Long = -90.811276	NOx	SLAMS	Chemilumin- escence	Continuous	High Concentration	Neighbor- hood	Yes	Baton Rouge
			Ozone	SPMS	U.V. Absorption	Continuous	General Background		Yes	
							High Concentration			
PM2.5	SPMS	Continuous TEOM Series1400a Meth. Code: 715	Continuous	General Background	No*					
Garyville 22-095-0002	152 Anthony F. Monica St.	Lat = 30.057276 Long = -90.619185	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Regional	Yes	New Orleans
Geismar 22-047-0005	Hwy 75	Lat = 30.218867 Long = -91.062438	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Baton Rouge
Gramercy 22-093-0003	1140 E. Jefferson Hwy, Gramercy, LA 70052	Lat= 30.052636 Long = -90.670016	SO2	SLAMS	U.V. Fluorescence	Continuous	Source Oriented	Neighbor- hood	Yes	New Orleans

* PM2.5 Continuous monitor used for AQI reporting purposes only due to exclusion of the comparison of the data from PM2.5 continuous BAM monitors to the NAAQS standards granted by EPA, Region 6 in a letter dated March 27, 2014. The BAM 1020 PM2.5 at the Capitol Site (AQS#22-033-0009) is the only one comparable to the NAAQS.

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Hammond 22-105-0001	21549 Old Covington Hwy	Lat = 30.503061 Long = -90.377118	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Hammond
			PM2.5	SLAMS	Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 12 th day	High Pop. Density		Yes	
Houma 22-109-0001	4047 West Park Ave. @ Hwy 24	Lat = 29.679051 Long = -90.779626	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Houma/ Thibodaux
Kenner 22-051-1001	100 West Temple Pl.	Lat = 30.040998 Long = -90.272735	NOx	SLAMS	Chemilumin- escence	Continuous	High Pop. Density Area-wide	Urban	Yes	New Orleans
			Ozone	SLAMS	U.V. Absorption	Continuous	High Concentration		Yes	
			PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	Every 6 th day	High Pop. Density		Yes	
			PM2.5	SPMS	Continuous TEOM Series 1400a Meth. Code: 715	Continuous	High Pop. Density		No*	
Lafayette USGS 22-055-0007	700 Cajundome Blvd.	Lat = 30.225877 Long = -92.042766	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Lafayette
			PM2.5	SPMS	Continuous BAM 1020 Meth. Code: 170	Continuous	High Pop. Density		No*	

* PM2.5 Continuous monitor used for AQI reporting purposes only due to exclusion of the comparison of the data from PM2.5 continuous BAM monitors to the NAAQS standards granted by EPA, Region 6 in a letter dated March 27, 2014. The BAM 1020 PM2.5 at the Capitol Site (AQS#22-033-0009) is the only one comparable to the NAAQS.

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Lafayette (cont.)	700 Cajundome Blvd	Lat = 30.225877 Long = -92.042766	PM10	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	High Pop. Density	Neighbor- hood	Yes	Lafayette
			Ozone	SLAMS	U.V. Absorption	Continuous	High Pop. Density		Yes	
LaPlace 22-095-0003	115 Garden Grove	Lat = 30.040961 Long = -90.466783	Lead	SLAMS	Gravimetric	Every 6 th day	Source Oriented	Middle	Yes	New Orleans
			Lead	SLAMS	Gravimetric (Collocated)	Every 12 th day			Yes	
LSU 22-033-0003	East End Aster Lane	Lat = 30.419805 Long = -91.182016	Ozone	SLAMS	U.V. Absorption	Continuous	High Concentration	Middle	Yes	Baton Rouge
Madisonville 22-103-0002	1421 Hwy 22 West	Lat = 30.429381 Long = -90.199678	Ozone	SLAMS	U.V. Absorption	Continuous	Source Oriented	Neighbor- hood	Yes	New Orleans
			PM2.5	SPMS	Continuous TEOM Series1400a Meth. Code: 715	Continuous	Source Oriented		No*	
Marrero 22-051-2001	Marrero Rd. just north of 4th St.	Lat= 29.900070 Long: -90.109750	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 3rd day	High Pop. Density	Neighbor- hood	Yes	New Orleans
Meraux 22-087-0004	4101 Mistrot Drive	Lat = 29.939614 Long = -89.923883	Ozone	SPMS	U.V. Absorption	Continuous	General Background	Urban	Yes	New Orleans
			SO2	SPMS	U.V. Fluorescence	Continuous	General Background		Yes	
			H2S	SPMS	U.V. Fluorescence	Continuous	General Background		No	
Monroe 22-073-0004	5296 Southwest Rd.	Lat = 32.509789 Long = -92.046050	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 3 rd day	General Background	Neighbor- hood	Yes	Monroe
			Ozone	SLAMS	U.V. Absorption	Continuous	General Background		Yes	

* PM2.5 Continuous monitor used for AQI reporting purposes only due to exclusion of the comparison of the data from PM2.5 continuous BAM monitors to the NAAQS standards granted by EPA, Region 6 in a letter dated March 27, 2014. The BAM 1020 PM2.5 at the Capitol Site (AQS#22-033-0009) is the only one comparable to the NAAQS.

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
New Orleans City Park 22-071-0012	Florida & Orleans Ave.	Lat = 29.993278 Long = -90.101464	PM2.5	SPMS	Continuous TEOM Series1400a Meth. Code: 715	Continuous	High Pop. Density	Neighbor- hood	No*	New Orleans
			PM10	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	High Pop. Denisty		Yes	
New Orleans Near-Road 22-071-0021	I610 at West End Blvd.	Lat = 29.996013 Long = -90.118190	NOx	SLAMS	Chemilumin- escence	Continuous	High Concentration	Micro- scale	Yes	New Orleans
			CO	SLAMS	Gas Filter Correlation	Continuous	High Concentration			
			PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 3 rd day	High Concentration			
New Roads 22-077-0001	Hwy 415	Lat = 30.681718 Long = -91.366247	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Neighbor- hood	Yes	Baton Rouge
Norco 22-089-0006	Field across from 35 Goodhope Road, Norco, LA	Lat= 29.997696 Long = -90.411095	SO2	SLAMS	U.V. Fluorescence	Continuous	Source Oriented	Neighbor- hood	Yes	New Orleans
North Baton Rouge 22-033-0015	1845 Brooklawn Drive	Lat= 30.577778 Long = -91.235417	SO2	SLAMS	U.V. Fluorescence	Continuous	Source Oriented	Neighbor- hood	Yes	Baton Rouge
Port Allen 22-121-0001	1005 Northwest Drive	Lat = 30.500642 Long = -91.213556	SO2	SLAMS	U.V. Fluorescence	Continuous	High Concentration	Neighbor- hood	Yes	Baton Rouge
			PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every day	High Concentration		Yes	

* PM2.5 Continuous monitor used for AQI reporting purposes only due to exclusion of the comparison of the data from PM2.5 continuous BAM monitors to the NAAQS standards granted by EPA, Region 6 in a letter dated March 27, 2014. The BAM 1020 PM2.5 at the Capitol Site (AQS#22-033-0009) is the only one comparable to the NAAQS.

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Port Allen (cont.)	1005 Northwest Drive	Lat = 30.500642 Long = -91.213556	Ozone	SLAMS	U.V. Absorption	Continuous	High Concentration	Neighbor- hood	Yes	Baton Rouge
			NOx	SLAMS	Chemilumin- escence	Continuous	High Concentration		Yes	
Pride 22-033-0013	11245 Port Hudson Pride Rd.	Lat = 30.700895 Long = -91.056068	NOx	SLAMS	Chemilumin- escence	Continuous	High Concentration	Neighbor- hood	Yes	Baton Rouge
			Ozone	SLAMS	U.V. Absorption	Continuous	High Concentration		Yes	
Shreveport Airport 22-015-0008	1425 Airport Dr.	Lat = 32.536273 Long = -93.748940	Ozone	SLAMS	U.V. Absorption	Continuous	High Pop. Density	Neighbor- hood	Yes	Shreveport
			PM2.5	SPMS	Continuous TEOM Series1400a Meth. Code: 715	Continuous	General Background		No*	
			PM10	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	High Pop. Density		Yes	
			SO2	SLAMS	U.V. Fluorescence	Continuous	High Pop. Density		Yes	
Shreveport Calumet 22-017-0008	Midway St.	Lat = 32.471494 Long = -93.795069	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Shreveport
			PM2.5	SLAMS	Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 12 th day	High Pop. Density		Yes	

* PM2.5 Continuous monitor used for AQI reporting purposes only due to exclusion of the comparison of the data from PM2.5 continuous BAM monitors to the NAAQS standards granted by EPA, Region 6 in a letter dated March 27, 2014. The BAM 1020 PM2.5 at the Capitol Site (AQS#22-033-0009) is the only one comparable to the NAAQS.

Table B Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
South Calcasieu 22-019-0011	8220 Big Lake Road Lake Charles, LA 70662	Lat= 30.103517 Long = -93.285319	SO2	SLAMS	U.V. Fluorescence	Continuous	Source Oriented	Neighbor- hood	Yes	Lake Charles
St. Martinville 22-099-0001	1178 W.J. Bernard Road	Lat: 30.088872 Long = -91.869595	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Neighbor- hood	Yes	Lafayette
Thibodaux 22-057-0004	194 Thorough- bred Park Dr.	Lat = 29.764425 Long = -90.765563	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Neighbor- hood	Yes	Houma/ Thibodaux
			PM2.5	SPMS	Continuous TEOM Series1400a Meth. Code: 715	Continuous	General Background		No*	
Vinton 22-019-0009	2284 Paul Bellow Rd.	Lat = 30.227567 Long = -93.579778	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 145	24 hrs every 3 rd day	Regional Transport	Neighbor- hood	Yes	Lake Charles
			Ozone	SPMS	U.V. Absorption	Continuous	General Background		Yes	
Westlake 22-019-0008	2646 John Stine Rd.	Lat = 30.262347 Long = -93.284906	SO2	SLAMS	U.V. Fluorescence	Continuous	High Pop. Density	Neighbor- hood	Yes	Lake Charles
			PM2.5	SPMS	Continuous TEOM Series1400a Meth. Code: 715	Continuous	High Pop. Density		No*	

* PM2.5 Continuous monitor used for AQI reporting purposes only due to exclusion of the comparison of the data from PM2.5 continuous BAM monitors to the NAAQS standards granted by EPA, Region 6 in a letter dated March 27, 2014. The BAM 1020 PM2.5 at the Capitol Site (AQS#22-033-0009) is the only one comparable to the NAAQS.

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Westlake (cont.)	2646 John Stine Rd.	Lat = 30.262347 Long = -93.284906	NOx	SLAMS RA40	Chemilumin- escence	Continuous	High Pop. Density RA40	Neighbor- hood	Yes	Baton Rouge

Table C. PAMS Network Plan

Site Name	Site Type	Pollutant	Sampling Frequency	Sampling Period
Capitol 22-033-0009	2	Speciated VOC	Eight 3-hr canisters daily (0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100 LST); One 24-hour canister every 6 th day	May-September
		TNMOC	Hourly	January-December
		NO, NO ₂ , NO _x	Hourly	January-December
		NO _y	Hourly	January-December
		CO (ppb level)	Hourly	January-December
		Ozone	Hourly	January-December
		SO ₂ (low level)	Hourly	January-December
		Wind Speed*	Hourly	January-December
		Wind Direction*	Hourly	January-December
		Temperature	Hourly	January-December
		Relative Humidity	Hourly	January-December
		UV Radiation	Hourly	January-December
		Barometric Pres.	Hourly	January-December
		Solar Radiation	Hourly	January-December
		Precipitation	Hourly	January-December
		PM ₁₀	Hourly	January-December
		PM _{Coarse}	Hourly	January-December
PM _{2.5}	Hourly	January-December		
Mixing Height	Hourly	January-December		
Site Name	Site Type	Pollutant	Sampling Frequency	Sampling Period
Dutchtown 22-005-0004	1/3	Speciated VOC	Four 3-hr cans every 3 days (i.e. 0300-0600, 0600-0900, 1500-1800, 1800-2100 LST) ; One 24-hour canister every 6 th day	May-September
		NO, NO ₂ , NO _x	Hourly	January-December
		Ozone	Hourly	January-December
		Wind Speed*	Hourly	January-December
		Wind Direction*	Hourly	January-December
		Temperature	Hourly	January-December

*Wind speed and direction reported to AQS as resultant wind speed and resultant wind direction

Site pictures can be found at <http://deq.louisiana.gov/page/air-monitoring-sites> by clicking on the desired location on the site map.