

2024 Louisiana Annual Monitoring Network Plan



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

February 20, 2024

The Louisiana Department of Environmental Quality (LDEQ) maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 Code of Federal Regulations (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 (AMNP) that follows covers the fiscal year of July 2024 through June 2025 with knowledge gained through February 2023.

LDEQ's Air Field Services section operates State and Local Ambient Monitoring Stations (SLAMS), Photochemical Assessment Monitoring Stations (PAMS), Speciation Trends Network (STN), Special Purpose Monitoring Stations (SPMS), and a National Core Network (NCore) Ambient Air Monitoring Station as a requirement of the 40 CFR 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 is submitted into the Environmental Protection Agency's (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 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 NAAQS pollutants will be used to compare 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 2024-June 2025

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# 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 lists specific information about analytes monitored at each site and the MSA covered by this location. Table C lists information regarding the PAMS network. The PAMS network plan exceeds the monitoring requirements with the air monitoring sites at Capitol (AQS# 22-033-0009) and Dutchtown (AQS# 22-005-0004) designated as PAMS sites.

The Population Weighted Emissions Index (PWEI) is used to determine the number of Core Based Statistical Area (CBSA) SO₂ monitors and can be found in Table D. Per CFR 40, Part 58, Appendix D, Section 4.4.2, the PWEI is calculated by multiplying the population of each CBSA, using the most current census data or estimates, and the total amount of SO₂ in tons per year emitted within the CBSA area, using an aggregate of the most recent parish level emissions data available in the National Emissions Inventory for each parish in each CBSA. The resulting product shall be divided by one million, providing a PWEI value, the units of which are million persons-tons per year. The calculated PWEI for each CBSA can be found in Table D. For any CBSA with a calculated PWEI value equal to or greater than 1,000,000, a minimum of three SO₂ monitors are required within that CBSA. For any CBSA with a calculated PWEI value equal to or greater than 100,000, but less than 1,000,000, a minimum of two SO₂ monitors are required within that CBSA. For any CBSA with a calculated PWEI value equal to or greater than 5,000, but less than 100,000, a minimum of one SO₂ monitor is required within that CBSA.

For this network plan, the most recent (2020) parish level emissions data from the National Emissions Inventory was used and can be found at the following web address: <https://www.epa.gov/air-emissions-inventories/2020-national-emissions-inventory-nei-data>

System Modifications

- The Meraux SO₂ monitoring object classification was changed from Source back to Background as per EPA's recommendation.
- Westlake (AQS #22-019-0008) now has a T640x monitoring PM_{2.5} and PM₁₀ and began polling into AQS on 4/1/2022 at 00:00 CST. LDEQ staff is currently installing a Federal Reference Method (FRM) at this site and this site will be LDEQ's official collocated site.
- LDEQ received funding to upgrade most of its PM_{2.5} equipment with Teledyne API's Model T640 Particulate Monitors. The PM_{2.5} FRMs will operate alongside of the new T640s for comparison purposes for at least a year. The following sites have been upgraded with T640s:
 - Baton Rouge / Capitol (AQS #220330009)
 - Chalmette Vista (AQS #220870007)
 - Kenner (AQS #220511001)
 - Port Allen (AQS #221210001).
 - Westlake (AQS #220190008) is currently in the process of having an FRM installed and will be the official collocated site.
 - I-610 New Orleans (AQS #220710021)
 - Marrero (AQS #220512001)
- The following sites may be upgraded with T640s pending analysis of comparability between FRM and Federal Equivalent Method (FEM) data:

- Vinton (AQS #22-019-0009) The T640 may replace the FRM.
- Hammond (AQS #22-105-0001) The T640 may replace both FRMs. Hammond will no longer be a collocated site.
- Geismar (AQS #22-047-0005) The T640 may replace the FRM.
- Lafayette (AQS #22-055-0007) The T640X may replace the BAMS and the FRM.
- Monroe (AQS #22-073-0004) The T640 may replace the FRM.
- Houma (AQS #22-109-0001) The T640 may replace the FRM.
- Alexandria (AQS #22-079-0002) The T640 may replace the FRM.
- Shreveport Airport (AQS #22-015-0008) The T640X may replace the BAM and TEOM.
- NO City Park (AQS #22-071-0012) The T640x may replace the BAM and TEOM.
- Calumet (AQS #22-017-0008) The T640 may replace FRMs,

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 to operate until the demolition and remediation activities at the nearby Exide recycling facility 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) PM_{2.5} FRM to characterize regional transport. Pending the analysis of the FRM and FEM data comparison, the FRM may be replaced with a Teledyne API T640.
- Continue to operate the ozone monitor at the Monroe site (AQS #22-073-0004) to maintain coverage for the northeast regional area.
- Continue to operate the PM_{2.5} 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. Pending the analysis of the FRM and FEM data comparison, the FRM may be replaced with a Teledyne API T640.
- Continue to operate the PM_{2.5} 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. Pending the analysis of the FRM and FEM data comparison, the FRM may be replaced with a Teledyne API T640.
- 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 in the near future.
- 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 in the near future.
- As per the EPA's request, LDEQ plans to move the Calumet (AQS #22-017-0008) site to a better location.

Ambient air monitoring site pictures can be found in Appendix B or at <https://www.deq.louisiana.gov/page/air-monitoring-sites> by clicking on the desired location on the site map.

In the event of projected budget cuts for fiscal year 2023/2024, 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. 1,246,176)</i>			
	Ozone	2	5	5
	Nitrogen Oxides	2	2	2
	Sulfur Dioxide	3	3	3
	Carbon Monoxide	1	1	1
	PM _{2.5}	2	4	4
	PM _{2.5} Continuous	1	6	6
	PM ₁₀	2-4	2	2
	Lead	2	2	2
350,000-1,000,000	<i>Baton Rouge (population est. 873,060)</i>			
	Ozone	6	8	8
	Nitrogen Oxides	4	6	6
	Carbon Monoxide	0	1	1
	Trace Level reactive Nitrogen Oxides; NO _y	2	2	2
	Sulfur Dioxide	1	2	2
	Trace Level Sulfur Dioxide	1	1	1
	PM _{2.5}	1	4	4
	PM _{2.5} Continuous	1	4	4
	PM _{2.5} Speciation – URG and SASS	2	2	2
	PM ₁₀	1-2	1	1
	PM Coarse	1	1	1
	Lead	1	1	1
	Trace Level Carbon Monoxide	1	1	1
	PAMS	0	2	2

¹Metropolitan Statistical Area, 2022? Population Estimate, United States Census Bureau <https://www.census.gov/data/tables/time-series/demo/popest/2020s-total-metro-and-micro-statistical-areas.html>

NOTE: The LDEQ PM_{2.5} network operates continuous monitors while reporting them as non-NAAQS data while operating under a FEM method due to exclusion of the comparison of the data from PM_{2.5} continuous BAM monitors to the NAAQS standards granted by EPA, Region 6 in a letter dated March 27, 2014. The BAM 1020 PM_{2.5} at AQS#22-033-0009 is the only one comparable to the NAAQS.

Table A: Type and Number of Monitors per Metropolitan Statistical Area (MSA) (cont.)

MSA/CSA Population ¹	MSA	Number of Monitors Currently Required	Number of Existing Monitors	Proposed Network
350,000-1,000,000	Shreveport (population est. 385,154)			
	Ozone	2	2	2
	Sulfur Dioxide	1	1	1
	PM _{2.5}	0	2	2
	PM _{2.5} Continuous	1	1	1
	PM ₁₀	0-1	1	1
350,000-1,000,000	Lafayette (population est. 481,125)			
	Ozone	2	2	2
	PM _{2.5}	0	1	1
	PM _{2.5} Continuous	0	1	1
	PM ₁₀	0-1	1	1
50,000-350,000	Lake Charles (population est. 207,320)			
	Ozone	1	3	3
	Nitrogen Oxides	1	1	1
	Sulfur Dioxide	1	1	1
	PM _{2.5}	0	1	1
	PM _{2.5} Continuous	0	1	1
	PM ₁₀	0	1	1
50,000-350,000	Alexandria (population est. 149,189)			
	PM _{2.5}	0	1	1
50,000-350,000	Monroe (population est. 202,869)			
	Ozone	0	1	1
	PM _{2.5}	0	1	1
50,000-350,000	Houma / Thibodaux (population est. 200,656)			
	Ozone	1	1	1
	PM _{2.5}	0	1	1
	PM _{2.5} continuous - non-NAAQS	0	1	1
50,000-350,000	Hammond (population est. 137,048)			
	PM _{2.5} FRM - NAAQS	0	2	2

¹Metropolitan Statistical Area, July 1, 2019, United States Census Bureau <https://www.census.gov/data/tables/time-series/demo/popest/2020s-total-metro-and-micro-statistical-areas.html>

NOTE: The LDEQ PM_{2.5} network operates continuous monitors while reporting them as non-NAAQS data while operating under a FEM method due to exclusion of the comparison of the data from PM_{2.5} continuous BAM monitors to the NAAQS standards granted by EPA, Region 6 in a letter dated March 27, 2014. The BAM 1020 PM_{2.5} at AQS#22-033-0009 is the only one comparable to the NAAQS.

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 Compara ble	MSA Represented
Alexandria 22-079-0002	8105 Tom Bowman Dr.	Lat = 31.177660 Long = -92.410600	PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i 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 Concentratio n	Neighbor -hood	Yes	Baton Rouge
			NO _x	SLAMS	Chemilumin escence	Continuous	High Pop. Density		Yes	
			NO _y Trace- level	SLAMS	Chemilumin escence	Continuous	High Pop. Density		No	
Capitol 22-033-0009	1061-A Leesville Ave.	Lat = 30.461981 Long = -91.179219	PM _{2.5}	SLAMS NCORE	Sequential FRM R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every day	High Pop. Density	Neighbor -hood	Yes	Baton Rouge
			PM _{2.5}	SLAMS	Sequential FRM (Collocated) R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every 12 th day	High Pop. Density		Yes	
			PM _{2.5}	SLAMS NCORE	Continuous Teledyne API T640x Meth. Code:638	Continuous	High Pop. Density		Yes	
			PM ₁₀	SLAMS	Continuous Teledyne API T640x Meth. Code:639	Continuous	High Pop. Density		Yes	

*There are two BAM 1020 monitors at the Capitol Site (AQS # 22-033-0009), one that collects PM_{2.5} 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 (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
Capitol (cont.)	1061-A Leesville Ave.	Lat = 30.461981 Long = -91.179219	PM _{2.5}	STN NCORE	Chemical Speciation SASS Teflon Gravimetric, Meth. Code 810 URG 3000N Meth. Code 839	24 hrs every 3 rd day	High Pop. Density	Neighbor -hood	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	
			NOx	SLAMS NCORE	Chemilumin- escence	Continuous	High Pop. Density RA40		Yes	
			NOy 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	Neighbor -hood	Yes	Lake Charles
Carville 22-047-0012	5445 Point Clair Rd.	Lat= 30.203984 Long = -91.125925	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 PM_{2.5} 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	PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every 6 th day	Source Oriented	Neighborhood	Yes	New Orleans
			PM _{2.5}	SPMS	Continuous Teledyne API T640x Meth. Code:638	Continuous	Source Oriented		Yes	
			PM ₁₀	SLAMS	Continuous Teledyne API T640x Meth. Code:639	Continuous	Source Oriented		Yes	
			SO ₂	SLAMS	U. V. Fluorescence	Continuous	Source Oriented		Yes	
Convent 22-093- 0002	St. James Court- house 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	

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	High Concentration		Yes	
			PM _{2.5}	SPMS	Continuous TEOM Series1400a Meth. Code: 715	Continuous	Population Exposure		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	PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Baton Rouge

* PM_{2.5} Continuous monitor used for AQI reporting purposes only. TEOMs are operated as non-FEM/non-FRM and are therefore not NAAQS comparable.

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	PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Hammond
			PM _{2.5}	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	PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i 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	NO _x	SLAMS	Chemilumin- escence	Continuous	High Pop. Density Area-wide	Urban	Yes	New Orleans
			Ozone	SLAMS	U.V. Absorption	Continuous	High Concentration		Yes	
			PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i Meth. Code: 145	Every 6 th day	High Pop. Density		Yes	
			PM _{2.5}	SPMS	Continuous Teledyne API T640x Meth. Code: 638	Continuous	High Pop. Density		Yes	
Lafayette USGS 22-055- 0007	700 Cajundome Blvd.	Lat = 30.225877 Long = -92.042766	PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Lafayette
			PM ₁₀	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	High Pop. Density		Yes	
			Ozone	SLAMS	U.V. Absorption	Continuous	High Pop. Density		Yes	
			PM _{2.5}	SPMS	Continuous BAM 1020 Meth. Code: 170	Continuous	High Pop. Density		No*	

* PM_{2.5} Continuous monitor used for AQI reporting purposes only due to exclusion of the comparison of the data from PM_{2.5} continuous BAM monitors to the NAAQS standards granted by EPA, Region 6 in a letter dated March 27, 2014 (EDMS Document 12196118). The BAM 1020 PM_{2.5} 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
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	General Background	Neighbor- hood	Yes	New Orleans
			PM _{2.5}	SPMS	Continuous TEOM Series1400a Meth. Code: 715	Continuous	General Background		No*	
Marrero 22-051-2001	328 Marrero Rd.	Lat= 29.900070 Long: -90.109750	PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every 3rd day	High Pop. Density	Neighbor- hood	Yes	New Orleans
			PM _{2.5}	SLAMS	Continuous Teledyne API T640x Meth. Code:636	Continuous	High Pop. Density	Neighbor- hood	Yes	
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
			SO ₂	SPMS	U.V. Fluorescence	Continuous	General Background		Yes	
Monroe 22-073-0004	5296 Southwest Rd.	Lat = 32.509789 Long = -92.046050	PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every 3 rd day	Population Exposure	Neighbor- hood	Yes	Monroe
			Ozone	SLAMS	U.V. Absorption	Continuous	General Background		Yes	

* PM_{2.5} Continuous monitor used for AQI reporting purposes only. TEOMs are operated as non-FEM/non-FRM and are therefore not NAAQS comparable.

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	PM _{2.5}	SPMS	Continuous TEOM Series 1400a Meth. Code: 715	Continuous	High Pop. Density	Neighbor- hood	No*	New Orleans
			PM ₁₀	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	High Pop. Density		Yes	
New Orleans Near-Road 22-071-0021	I610 at West End Blvd.	Lat = 29.996013 Long = -90.118190	NO _x	SLAMS	Chemilumin- escence	Continuous	High Concentration	Micro- scale	Yes	New Orleans
			CO	SLAMS	Gas Filter Correlation	Continuous	High Concentration			
			PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every 3 rd day	High Concentration			
			PM _{2.5}	SLAMS	Continuous Teledyne API T640x Meth. Code:636	Continuous	High Concentration		Yes	
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	SO ₂	SLAMS	U.V. Fluorescence	Continuous	Source Oriented	Neighbor- hood	Yes	New Orleans
Port Allen 22-121-0001	1005 Northwest Drive	Lat = 30.500642 Long = -91.213556	SO ₂	SLAMS	U.V. Fluorescence	Continuous	High Concentration	Neighbor- hood	Yes	Baton Rouge
			PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every day	High Concentration		Yes	

* PM_{2.5} Continuous monitor used for AQI reporting purposes only. TEOMs are operated as non-FEM/non-FRM and are therefore not NAAQS comparable.

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	
			PM _{2.5}	SLAMS	Continuous Teledyne API T640x Meth. Code:636	Continuous	High Concentration		Yes	
			PM _{2.5}	SLAMS	Continuous Teledyne API T640x Meth. Code:636	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
			PM _{2.5}	SPMS	Continuous TEOM Series1400a Meth. Code: 715	Continuous	Population Exposure		No*	
			PM ₁₀	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	High Pop. Density		Yes	
			SO ₂	SLAMS	U.V. Fluorescence	Continuous	High Pop. Density		Yes	
Shreveport Calumet 22-017-0008	Midway St.	Lat = 32.471494 Long = -93.795069	PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Shreveport
			PM _{2.5}	SLAMS	Sequential FRM (Collocated) R&P Partisol Plus Model 2025i Meth. Code: 145	24 hrs every 12 th day	High Pop. Density		Yes	

* PM_{2.5} Continuous monitor used for AQI reporting purposes only. TEOMs are operated as non-FEM/non-FRM and are therefore not NAAQS comparable.

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
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
			PM _{2.5}	SPMS	Continuous TEOM Series1400a Meth. Code: 715	Continuous	Population Exposure		No*	
Vinton 22-019-0009	2284 Paul Bellow Rd.	Lat = 30.227567 Long = -93.579778	PM _{2.5}	SLAMS	Sequential FRM R&P Partisol Plus Model 2025i 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	SO ₂	SLAMS	U.V. Fluorescence	Continuous	High Pop. Density	Neighbor- hood	Yes	Lake Charles
			NO _x	SLAMS RA40	Chemilumin- escence	Continuous	High Pop. Density RA40		Yes	
			PM _{2.5}	SPMS	Continuous Teledyne API T640x Meth. Code: 638	Continuous	High Pop. Density		Yes	
			PM ₁₀	SLAMS	Continuous Teledyne API T640x Meth. Code:639	Continuous	Source Oriented		Yes	

* PM_{2.5} Continuous monitor used for AQI reporting purposes only. TEOMs are operated as non-FEM/non-FRM and are therefore not NAAQS comparable.

Table C: PAMS Network Plan

Site Name	Pollutant	Sampling Frequency	Sampling Period
Capitol 22-033-0009	Speciated VOC	Eight 3-hr canisters (0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100 LST) daily; One 24-hour canister every 6 th day	May-September
		Eight 3-hr canisters (0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100 LST) every 6 th day; One 24-hour canister every 6 th day	October – April
	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	Pollutant	Sampling Frequency	Sampling Period
Dutchtown 22-005-0004	Speciated VOC	Four 3-hr canisters (i.e. 0300-0600, 0600-0900, 1500-1800, 1800-2100 LST) every 3 rd day; One 24-hour canister every 6 th day	May-September
		Eight 3-hr canisters (0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100 LST) every 6 th day; One 24-hour canister every 6 th day	October – April
	TNMOC	Hourly	January-December
	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 in Appendix A or at <https://www.deq.louisiana.gov/page/air-monitoring-sites> by clicking on the desired location on the site map.

Table D. Population Weighted Emissions Index for Sulfur Dioxide

AREA (Parishes)	CBSA Code (Core Based Statistical Area) 2023	Population Estimate 2023	SO2 emissions 2020 (tons)	PWEI (Population Weighted Emissions Index) 2024	Required SO2 Monitors	Existing SO2 Monitors
Alexandria (Grant, Rapides)	10780	22000	5229.653	780.2066963	0	0
Baton Rouge (Ascension, Assumption, East Baton Rouge, East Feliciana, Iberville, Livingston, Point Coupee, St. Helena, West Baton Rouge, West Feliciana)	12940	873060	39707.169	34567.83	1	2*
Bogalusa (Washington)	14220	45025	527.53098	23.75208248	0	0
DeRidder (Beauregard)	19760	36570	149.90144	5.481895771	0	0
Fort Polk (Vernon)	22860	47247	5.364113697	0.2534383	0	0
Hammond (Tangipahoa)	25220	137048	20.52739934	2.813239025	0	0
Houma / Thibodaux (Lafourche, Terrebonne)	26380	200656	20.52739934	4.118945842	0	0
Jennings (Jefferson Davis)	27760	32026	6.443218375	0.206350512	0	0
Lafayette (Acadia, Iberia, Lafayette, St. Martin, Vermillion)	29180	481125	26184.68342	73.36385201	0	0
Lake Charles (Calcasieu, Cameron)	29340	207320	26185.37472	5428.751888	1	1
Minden (Webster)	33380	35643	33.38893699	1.190081881		
Monroe (Ouachita, Union)	33740	202869	858.2601492	174.1143782	0	0
Morgan City (St. Mary)	34020	47789	20579.55775	983.4764853	0	0
Natchez MS-LA (Adam, Concordia)	35020	46524	2.372679596	0.110386546	0	0
Natchitoches (Natchitoches)	35060	36663	244.382028	8.959778293	0	0
New Orleans / Metairie / Kenner (Jefferson, Orleans, Plaquemines, St. Bernard, St. Charles, St. James, St. John the Baptist, St. Tammany)	35380	1246176	15936.25385	19859.37708	1	3
Opelousas (St. Landry)	36660	81773	57.97331606	4.740651974	0	0
Ruston (Lincoln)	40820	48129	176.0479144	8.473010072	0	0
Shreveport / Bossier City (Bossier, Caddo, De Soto)	43340	385154	11987.38194	4616.988102	0	1

*Source: National Emissions Inventory 2020 (<https://www.epa.gov/air-emissions-inventories/2021-national-emissions-inventory-nei-data>)

**One of the SO₂ samplers is trace-level at our N-Core sit

Appendix A: LDEQ Ambient Air Monitoring Site Pictures



Alexandria AQS 22-079-0002



Baker AQS 22-033-0014



Bayou Plaquemine AQS 22-047-0009



Capitol AQS 22-033-0009



Carlyss AQS 22-019-0002



Carville AQS 22-047-0012

Appendix A: LDEQ Ambient Air Monitoring Site Pictures



Chalmette Vista AQS 22-087-0007



Convent AQS 22-093-0002



Dixie AQS 22-017-0001



Dutchtown AQS 22-005-0004



French Settlement AQS 22-063-0002



Garyville AQS 22-095-0002

Appendix A: LDEQ Ambient Air Monitoring Site Pictures



Geismar AQS 22-047-0005



Hammond AQS 22-105-0001



Houma AQS 22-109-0001



Kenner AQS 22-051-1001



Lafayette USGS AQS 22-055-0007



LaPlace AQS 22-095-0003

Appendix A: LDEQ Ambient Air Monitoring Site Pictures



LSU AQS 22-033-0003.



Madisonville AQS 22-103-0002



Marrero AQS 22-051-2001



Meraux AQS 22-087-0004



Monroe AQS 22-073-0004



New Orleans City Park AQS 22-071-0021

Appendix A: LDEQ Ambient Air Monitoring Site Pictures



New Orleans Near-Road AQS 22-071-0021.



New Roads AQS 22-077-0001



Norco AQS 22-089-0006



Port Allen AQS 22-121-0001



Pride AQS 22-033-0013



Shreveport Airport AQS 22-015-0008

Appendix A: LDEQ Ambient Air Monitoring Site Pictures



Shreveport Calumet AQS 22-017-0008



St. Martinville AQS 22-099-0001



Thibodaux AQS 22-057-0004



Vinton AQS 22-019-0009



Westlake AQS 22-0008