REPORT:

LOUISIANA SENATE CONCURRENT RESOLUTION 30

TO STUDY IMPLEMENTATION OF REAL-TIME COMMUNITY AIR MONITORING AND NOTIFICATION SYSTEMS

PREPARED BY THE LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Table of

CONTENTS

PREAMBLE

SENATE CONCURRENT RESOLUTION 30

Senate Concurrent Resolution 30 (SCR 30), which can be read in *Attachment A*, was adopted during the 2024 Regular Legislative Session of the Louisiana State Legislature.

The Resolution requests that a Task Force be created to study the implementation of real-time community air monitoring and notification systems, specifically the costs and benefits of implementation of such systems in communities disproportionately impacted by the negative affects of air pollution.

The Task Force was directed to submit this written report outlining their efforts by February 15, 2025, to the Senate Committee on Environmental Quality and the House Committee on Natural Resources and Environment.

EXECUTIVE SUMMARY

SCR 30, adopted during the 2024 Regular Legislative Session of the Louisiana State Legislature, created the *Community Air Monitoring and Notification System Task Force* to study the feasibility, costs, and implementation of community air monitoring and notification systems in Louisiana. This report outlines the findings and efforts of the Task Force, fulfilling the requirement to submit a written report to the Senate Committee on Environmental Quality and the House Committee on Natural Resources and Environment.

The report begins by providing the legislative context and objectives of SCR 30, detailed in *Attachment A*. It describes the role of the Task Force in evaluating real-time air monitoring systems, including their potential to detect and communicate air quality exceedances to impacted communities. Key considerations include analyzing existing regulatory frameworks, current monitoring technologies, and the infrastructure needed to implement and maintain these systems statewide.

The report details the cost analysis of implementing such systems, including estimates of initial equipment costs, ongoing operational expenses, and personnel requirements, informed by current air monitoring operations at facilities. Specific costs associated with regulatory-grade monitors, simpler air sensors, and notification systems capable of delivering real-time alerts to communities are outlined in detail (*Air sensors:* a method of referring to a class of technology for devices that can directly read a pollutant in the air and are lower in cost, portable and generally easier to operate than regulatory-grade monitors).

Additionally, the report examines the potential integration of simpler sensor technologies as sentinel systems, their role in complementing regulatory-grade monitors, and how they can enhance community coverage, with an emphasis on the importance of public involvement and transparency in siting decisions to build trust and foster community support.

Finally, the report includes actionable recommendations for legislative or regulatory changes necessary to implement a system effectively. These include potential phased approaches, prioritization of sites, and public engagement initiatives. Attachments provide supporting materials, such as the full text of SCR 30, an inventory of Title V facilities, relevant cost estimates, and technical references for air monitoring technologies.

This report represents a comprehensive evaluation of the challenges, opportunities, and pathways for establishing a Community Air Monitoring and Notification System in Louisiana, as requested by SCR 30. Its findings and recommendations aim to guide the Legislature in making informed decisions to protect public health and improve air quality across the State.

TASK FORCE

Senate Concurrent Resolution 30: To create the Community Air Monitoring and Notification Task Force to study the implementation of real-time community air monitoring and notification systems for emission sources.

BE IT FURTHER RESOLVED that the Task Force shall submit a written report of its findings, conclusions, and recommendations to the House Committee on Natural Resources and Environment and the Senate Committee on Environmental Quality on or before February 15, 2025

MEMBERSHIP

Secretary Aurelia S. Giacometto, Louisiana Department of Environmental Quality, Chair Ms. Shannon Soileau, Louisiana Department of Health
Mr. Neal McMillin, Louisiana Department of Energy and Natural Resources
Representative Alonzo Knox, Louisiana House of Representatives
Representative Kim Coates, Louisiana House of Representatives
Senator Patrick Connick, Louisiana Senate
Mr. Bodi White, Louisiana Senate (Former)
Mr. Damien Watt, Louisiana Mid-Continent Oil and Gas Association
Mr. Douglas Melancon, Louisiana Chemical Association
Ms. Lindsey Cooper Philips, Clean Air Task Force
Ms. Kathy Wascom, Louisiana Environmental Action Network

Effectiveness of Real-Time Community Air Monitoring and Notification Systems

What is Community Air Monitoring?

Community air monitoring involves the systematic process of measuring and reporting air quality in a specific area, typically near facilities that are major sources of air pollutants. This includes the use of real-time monitoring equipment to track parameters that may vary based on the size and scope of the facility being monitored. Proven and verifiable regulatory-grade monitors, such as Federal Reference Method (FRM) or Federal Equivalent Method (FEM) monitors, are employed to ensure the accuracy and reliability of the data collected.

FRMs are designed to provide the most fundamentally sound and scientifically defensible concentration measurements for criteria pollutants. FRMs serve as the basis of comparison upon which to judge other measurement methods. FEMs provide a comparable level quality as compared to FRMs, and may include newer, innovative technologies to reduce overall operating cost and to achieve multiple monitoring objectives. For example, FEMs may be used to provide timely public health advisories. EPA conducts technical and administrative reviews of new candidate FRMs and FEMs for approval.

Community Air Monitoring Reliability Act

The primary purpose of community air monitoring is to provide accurate and timely information about air quality to surrounding communities, fostering transparency and promoting public health. In Louisiana, the Community Air Monitoring Reliability Act, signed into law (See 2024 Regular session, Act 181, SB 503) by Governor Landry, establishes clear standards for non-governmental entities to conduct air quality monitoring.

The Community Air Monitoring Reliability Act was created to establish standards for monitoring programs to ensure public access to accurate air quality information and requires that equipment, software, and methods for data collection and analysis use current EPA-approved testing and monitoring methods.

This legislation includes provisions for:

- Collecting data on pollutants that meet National Ambient Air Quality Standards (NAAQS).
- Considering actions to address potential noncompliance with NAAQS.
- Requiring monitoring entities to provide clear and accessible explanations of their findings and data to the public.

By utilizing EPA-regulated equipment and adhering to established protocols, community air monitoring ensures that residents have access to reliable air quality information while supporting compliance with environmental standards. This collaborative approach helps to maintain cleaner air and safeguard public health across Louisiana.

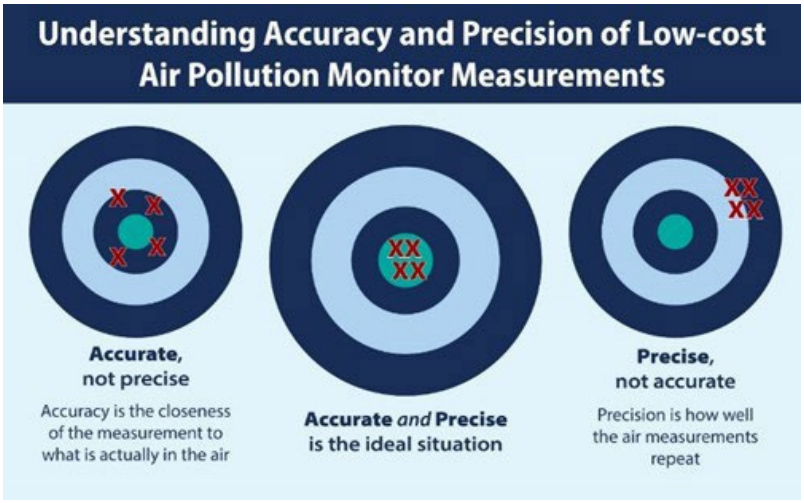
Types of Air Monitors and Sensors

Community air monitoring employs two primary types of equipment: **air sensors** and **regulatory monitors**, each serving distinct purposes and offering varying levels of accuracy and precision.

Air sensors are less costly and primarily used for informational purposes. While they can provide valuable data, they typically have higher detection limits, such as measuring in parts per million (PPM) rather than parts per billion (PPB), which may result in less detailed readings. Proper siting is essential to ensure the reliability of their results. However, air sensors are prone to inaccuracies if not calibrated correctly, potentially leading to false positives or negatives. Their accuracy and precision can also diminish over time when exposed to certain pollutants, adverse weather conditions, or without proper maintenance. Thus, while air sensors can offer insights, they generally do not provide the high confidence required for regulatory decision-making.

Regulatory monitors, on the other hand, are designed to determine compliance with Environmental Protection Agency (EPA) standards and are subject to stringent requirements. These monitors can be expensive but offer significantly lower detection limits and highly accurate readings. Specific siting requirements are critical to ensure the integrity of the data collected. Regulatory monitors (FRMs) have strict measurement performance criteria and are designed to provide the most sound and scientifically defensible concentration. EPA Office of Research and Development (ORD) approves candidate FRMs methods and any modification to that method. Regulatory monitors provide a higher level of confidence and precision, making them the preferred choice for enforcing air quality standards and ensuring compliance with regulations.

Both types of equipment play a role in community air monitoring efforts, with air sensors offering broad accessibility and initial insights, and regulatory monitors providing the accuracy needed for compliance and enforcement. Together, they form a comprehensive approach to understanding and managing air quality in communities.

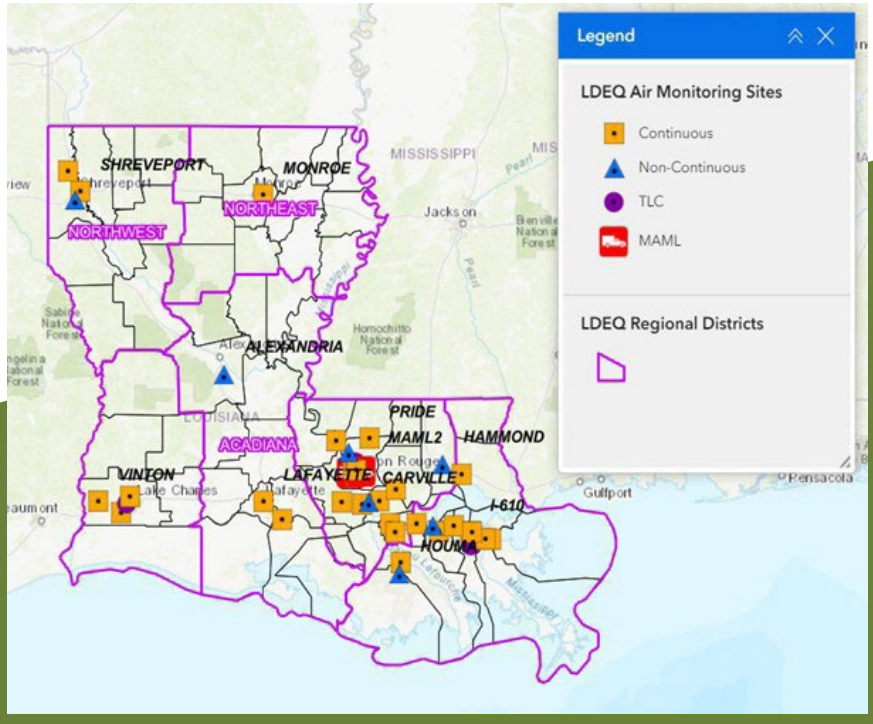


Current Examples of Real-time Monitoring Conducted by LDEQ

Real-time air monitoring involves the continuous tracking of particulate matter (PM) and other environmental parameters at designated sites. Parameters vary by site, but can include: carbon monoxide, ozone, sulfur dioxide, nitrogen oxides, and meteorological data such as wind speed and wind direction. The Louisiana Department of Environmental Quality (LDEQ) conducts real-time air monitoring in compliance with current Environmental Protection Agency (EPA) guidelines through four distinct types of monitoring sites: **continuous, non-continuous, and temporary localized monitoring (TLC)** and sampling **TO-15.**

Continuous Monitoring: LDEQ operates 29 continuous monitoring sites statewide, which provide real-time data on particulate matter (PM) and other parameters, including carbon monoxide, ozone, sulfur dioxide, nitrogen oxides, and meteorological data such as wind speed and wind direction. This data is made publicly available on LDEQ's website, offering transparency and immediate access to air quality information. Parameter selection is following siting requirements in 40 CFR Part 58.

Non-Continuous Monitoring: LDEQ also manages 7 non-continuous monitoring sites where PM or lead particles are collected on filters and sent to a contracted laboratory for analysis. While these sites do not provide real-time results, the data they produce is critical for tracking long-term trends and ensuring compliance with air quality standards. Parameters include particulate matter and lead. The most important trend to track is attainment or nonattainment of the National Ambient Air Quality Standards (NAAQS.) Other data can be compared to Louisiana Ambient Air Standards to determine if there are any concerns or patterns that can be related to wind direction and a particular source.



Temporary Localized Monitoring (TLC): In addition, LDEQ operates 4 TLC sites, which are not required by federal regulations but are strategically placed in areas of interest for approximately one year. These sites utilize a combination of continuous and non-continuous monitoring methods to provide localized data that can address specific community concerns or emerging air quality issues.

Generally the selection of parameters for these sites are based on the issues or based on complaints from community members. For TLC sites, LDEQ locates based on predominate wind direction, location of suspected source (or if no source is known, central to all possible). The site has to be secure, with power located nearby and very few obstructions such as trees or buildings, and located on property where the owner is willing to sign a lease.

One example of this type of monitoring would be LDEQ's efforts to monitor the landfills in Jefferson Parish in late 2020. The concerned facilities were receiving a number of complaints from the community at that time, so LDEQ placed a temporary monitoring site central to all the facilities. LDEQ was able to correlate wind directions with elevated readings to determine the direction of the odors. LDEQ's Surveillance Division was then able to inspect the landfills, finding numerous compliance issues in need of addressing.

TO-15 Sampling: Additionally, LDEQ conducts TO-15 sampling for air quality monitoring, operating 19 sites that collect about 3,150 canisters annually. There is no real-time monitoring; currently 17 sites sample based on detections from continuous monitors that trigger sampling at certain concentrations. This results in an additional 200 canisters each year, with each canister analyzed for around 60 compounds, often using two separate methods.

An air sampling canister, commonly referred to as a "summa canister," is a spherical container constructed of specially treated stainless steel used for collecting an air sample. The canister is prepared by evacuating the contents to a vacuum and by opening a stainless steel valve to allow the air sample to enter the canister. Flow controllers can be used to restrict flow and allow for collection at a desired flow rate or over a desired time frame. When the sample has been collected, the valve is closed and the canister is sent to a laboratory for analysis. (EPA Method TO-15 is the procedure used to analyze air samples that are collected through canister sampling, and the analyte list can be tailored to meet specific needs.)

Together, these monitoring efforts enable LDEQ to maintain a comprehensive network that supports regulatory compliance, public awareness, and targeted environmental protection initiatives.

CURRENT EXAMPLES OF FENCELINE AIR MONITORING CONDUCTED BY LDEQ

FENCELINE MONITORING

Fenceline monitoring is a process that uses technology to measure the concentrations of air pollutants at the property line of a manufacturing site. It refers to the use of ambient air monitoring equipment to measure ambient air concentrations at a property line or perimeter of a manufacturing site for a specific parameter or parameters. There are various methods in which fenceline monitoring can be implemented.

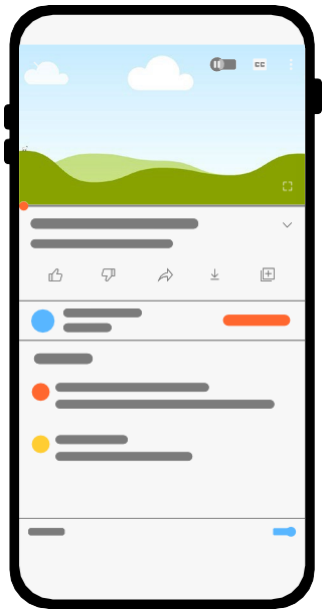
An example of fenceline monitoring, currently being used, is the environmental requirement of refineries to sample benzene at the fenceline. This type of monitoring uses devices to analyze and provide readings of contaminants in the air. Sampling involves trapping the constituent in a canister or on media and sending that canister or media to an offsite lab for analysis. It is currently being conducted by industry in compliance with EPA guidelines, as outlined by the LDEQ. This includes benzene fenceline monitoring at all 14 refineries and benzene sampling at the perimeter of these facilities.

Additionally, the Hazardous Organic NESHAP (HON) rule applies to 57 manufacturing facilities, which will also undergo perimeter sampling for various hazardous substances, including ethylene oxide (EtO), benzene, 1,3- butadiene, ethylene dichloride, vinyl chloride, and chloroprene. Sampling for these substances is set to begin in April 2026.

NOTIFICATION SYSTEMS

Notification Systems Explained

A system that delivers a message that informs a user of a system event, such as a problem or warning.



Types of Notification Systems

The notification component for community air monitoring can be delivered through mobile or email alerts to the surrounding populace and includes notifications to the Louisiana Department of Environmental Quality (LDEQ). These notifications would be sent to the community adjacent to the specific monitoring site, ensuring that local residents are informed and aware of any pertinent air quality updates.

Benefits of Real-time Systems

Real-time air monitoring offers continuous and immediate measurement of air quality parameters, providing instant and up-to-date information on pollutant concentrations. This technology can be effectively utilized to trigger alerts through a notification system, ensuring that our communities are better informed about air quality issues.

ASSOCIATED COSTS FOR NOTIFICATION SYSTEMS

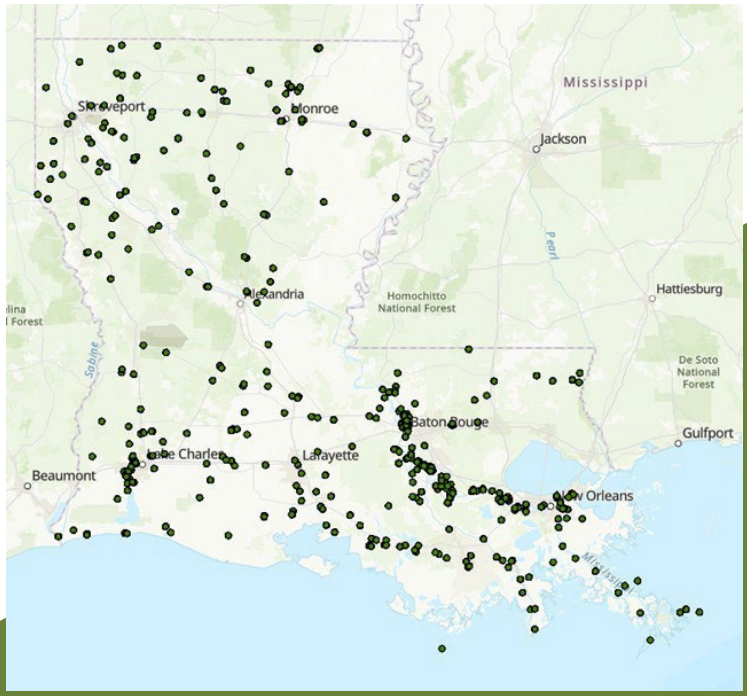
Cost Analysis

The costs to install, operate, and maintain a community air monitoring system were estimated based on parameters outlined in past legislative proposals, including Senate Bills 35, 20, 2, and 367 from 2023, 2022, 2021, and 2020, respectively. These bills proposed real-time monitoring at all Title V facilities in Louisiana for EPA-defined criteria pollutants and toxic air pollutants regulated by LDEQ.

As of September 16, 2024, there were **476 Title V facilities in Louisiana**, ranging from large industrial complexes to sugar cane processing plants, commercial bakeries, and Louisiana State University. A comprehensive list of these facilities and the 235 compounds identified in their permits can be found in *Attachments B and C,* respectively.

In estimating costs for purposes of this report, it was assumed that each Title V facility would require only one ambient air monitoring site. However, for real world applications, larger facilities may require additional sites. If previously proposed bills requiring fence-line monitoring had become law, the language of those bills would likely require larger facilities to have more than one site or monitoring system. This is the case, even though cost estimates for those proposed bills were based on one site per facility.

Equipment costs were calculated using LDEQ unit costs, while annual operation and maintenance costs were based on data from existing community air monitoring systems. For the purposes of this resolution, LDEQ costs are assumed to be similar to industry costs for the same or similar equipment. Therefore, this report proceeds under the consideration that there would not be significant differences, in the big picture.



The proposed monitoring parameters include four of the six criteria pollutants—sulfur dioxide (SO_2), particulate matter (PM), carbon monoxide (CO), and nitrogen dioxide (NO_2)—as well as ammonia, hydrogen sulfide (H_2S), methane/non-methane hydrocarbons, wind speed, and wind direction.

- ***Sulfur dioxide:*** a colorless, poisonous gas produced during the combustion of coal or oil containing sulfur.
- ***Particulate matter:*** the term for a mixture of solid particles and liquid droplets found in the air.
- ***Carbon monoxide:*** colorless, practically odorless, and tasteless gas that results from incomplete oxidation of carbon in combustion.
- ***Nitrogen dioxide:*** one of a group of highly reactive gases known as oxides of nitrogen or nitrogen oxides and gets in the air from the burning of fuel.

These particles come in many shapes and sizes and can be made up of hundreds of different chemicals. Particulate matter is categorized by the size of the particles where inhalable particles with diameters 10 micrometers or less are defined as PM10 and particles with a diameter of 2.5 micrometers or smaller are defined as PM2.5.

Additionally, it is proposed to monitor TO-15 analytes in real time using a Selected Ion Flow Tube (SIFT) Instrument, supplemented by canister collection and TO-15 analysis on a six-day sampling schedule or through strike samples. From the SIFT website, Ion Flow-Tube Mass Spectrometry (SIFT-MS) is a form of direct mass spectrometry. It applies precisely controlled chemical ionization reactions to detect and quantify trace amounts of volatile organic compounds (VOCs) and inorganic gases. SIFT- MS is a unique trace gas analyzer capable of real-time VOC analysis and inorganic compound detection.

The other two criteria pollutants, ozone and lead, were not included in the proposed list of parameters because ozone is formed in the atmosphere and not emitted by any facility. Similarly, lead is handled in a very small number of facilities and real time monitoring of lead would not provide any useful results.

This comprehensive monitoring approach highlights the significant resources required to ensure accurate and reliable air quality data, demonstrating the complexities and costs of implementing large-scale community air monitoring systems.

ADDITIONAL COSTS

Regulatory Grade Monitors

The cost of implementing regulatory-grade air monitors for the Louisiana Department of Environmental Quality (LDEQ) includes both upfront equipment expenses and annual operation and maintenance costs. According to estimates from Senate Bill 35 (2023), the total equipment cost per monitoring site is approximately just over $791,000. All equipment costs were calculated using LDEQ unit costs (the cost for LDEQ to purchase), while operational costs were estimated from community air monitoring systems currently in operation.

In addition, the annual operating and maintenance costs for each site range between $150,000 and $200,000. These expenses reflect the high standards required for regulatory-grade monitors, which are essential for providing accurate, reliable data to ensure compliance with federal and state air quality regulations.

Notification System

Real-time notification systems are an essential component of a community air monitoring system, designed to promptly alert the public when air monitors detect an exceedance of air quality standards. These systems operate by disseminating notifications, such as text messages or telephone calls, to inform surrounding communities of detected exceedances.

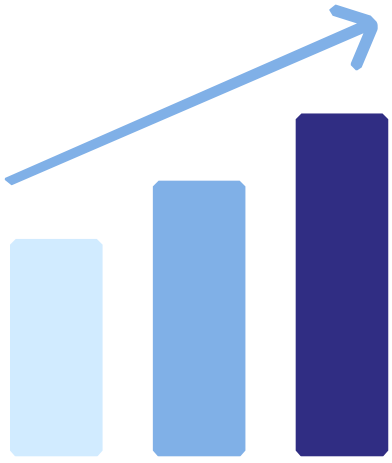
The cost of implementing such a statewide notification system depends on its type and functionality. Cost estimates, acquired in collaboration with industry affiliates, suggest that the initial setup, licensing, and annual maintenance of a comprehensive notification system could total approximately $5.2 million. This investment reflects the advanced technology and infrastructure required to ensure timely and accurate communication of air quality conditions, supporting LDEQ's mission to protect public health and the environment.

LDEQ Cost Estimates

Implementing real-time air monitoring notification systems would require significant resources for the Louisiana Department of Environmental Quality to ensure data quality, proper reporting, and compliance. LDEQ would be responsible for reviewing initial siting plans for each facility's monitoring system, conducting Quality Assurance (QA) and Quality Control (QC) to validate the captured data, making necessary modifications to monitoring plans, and overseeing ongoing data reporting.

Based on fiscal notes from Senate Bill 35 (2023), LDEQ estimates that an additional 48 staff positions would be needed to support these functions, at an annual cost of approximately $8.2 million. LDEQ's staff are responsible for ensuring that the data is captured correctly and that the appropriate Quality Assurance (QA) procedures are followed. These personnel would join the current team of seven (7) dedicated staff managing data for the existing network of 38 monitoring sites, significantly expanding LDEQ's capacity to handle the increased workload.

This comprehensive effort underscores the substantial financial and operational commitment required to implement a robust, statewide real-time air monitoring notification system that meets the agency's high standards for accuracy and transparency.



AIR POLLUTANTS

Air pollutants are defined by the Environmental Protection Agency (EPA) as any physical, chemical, biological, or radioactive substance that enters the air, including precursors to the formation of other pollutants. These pollutants originate from various sources, such as vehicle exhaust, industrial emissions (e.g., power plants, refineries, chemical manufacturing), natural events like forest fires, and indoor sources such as cleaning products and building materials. Once released, air pollutants are transported through the atmosphere and can be deposited into water, soil, and sediment. From these media, pollutants can enter the food chain via fruits, vegetables, fish, and animal products, or people can be exposed through inhalation, ingestion, or direct contact with contaminated air, water, soil, or dust.

Sections 108 and 109 of the Clean Air Act (CAA) govern the establishment, review, and revision, as appropriate, of the National Ambient Air Quality Standards (NAAQS) for each criteria air pollutant to provide protection for the nation's public health and the environment.

The EPA classifies air pollutants into two main categories: **common air pollutants** and **hazardous air pollutants (HAPs)**.

Common air pollutants, also known as criteria pollutants, include six key substances: carbon monoxide, nitrogen dioxide, sulfur dioxide, ground-level ozone, lead, and particulate matter. These pollutants are regulated under the National Ambient Air Quality Standards (NAAQS) due to their widespread presence and potential to harm human health and the environment.

Hazardous air pollutants (HAPs), or toxic air pollutants, are substances known or suspected to cause cancer or other serious health effects. Examples include dioxins, lead, mercury, tetrachloroethylene, and benzene. Within this category, the EPA has identified 30 urban air toxic pollutants, such as benzene, arsenic compounds, formaldehyde, quinolone, and polychlorinated biphenyls, which pose significant risks in urban areas. HAPs are established in Section 112 of the CAA, and the EPA's HAPs list includes 188 pollutants.

Additionally, Louisiana regulates **Toxic Air Pollutants (TAPs)**, which include both federally regulated HAPs and additional pollutants such as ammonia, barium, hydrogen sulfide, methyl ethyl ketone, sulfuric acid, and others. Louisiana's TAPs program is more stringent than federal regulations, as it establishes ambient air standards for each listed pollutant. The full list of TAPs is available in the Louisiana Administrative Code (LAC 33:III, Chapter 51, Tables 51.1–51.3).

Together, these classifications highlight the diverse nature of air pollutants and the need for comprehensive monitoring and regulation to protect public health and the environment.

Public Health Impacts Associated with Air Pollutants

The potential for health impacts associated with exposure to Title V air pollutants can be evaluated using air monitoring data. Potential health risks associated with exposure to air pollutants are evaluated using the methods present in the EPA's Risk Assessment Guidance for Superfund Volume I Human Health Evaluation Manual, Part A (EPA 1989).

In accordance with this manual, health effects associated with chemical exposure are divided into two categories: cancer (carcinogenic) health effects and noncancer (noncarcinogenic) health effects. The health risks associated with exposure to these pollutants are evaluated through the Environmental Protection Agency's (EPA) Risk Assessment Guidance for Superfund, which provides methodologies to estimate and assess risks to human health.

***Carcinogenic Health Effects*:** Occurs when abnormal cells in the body grow uncontrollably, forming tumors that may remain localized or invade other tissues. Chemicals that are known or suspected to cause cancer are referred to as carcinogens. Examples of carcinogens and their associated cancers include benzene (leukemia), trichloroethylene (kidney and liver cancers, non-Hodgkin lymphoma), and vinyl chloride (liver cancer).

Risk assessments for carcinogens estimate the probability of an individual developing cancer over a lifetime due to exposure, known as "excess individual lifetime cancer risk." Acceptable cancer risk is defined as a lifetime risk within the range of 1 in 1,000,000 (10^{-6}) to 1 in 10,000 (10^{-4}). These estimates are based on site-specific exposure concentrations and compared to the acceptable risk range to determine whether further action or detailed assessment is required.

For example, an annual average detected concentration of 6.9 ug/m3 of vinyl chloride in the ambient air has an an estimated cancer risk of 3 in 100,000 (3 x 10-5) which is within the acceptable risk range of 1 in 1,000,000 to 1 in 10,000. Therefore, unacceptable cancer risk is not expected to be associated with this exposure level.

***Noncarcinogenic Health Effects*:** Refers to adverse outcomes other than cancer, caused by exposure to specific chemicals. These effects can range from minor symptoms, such as eye and nose irritation, to more severe conditions, including asthma, chronic obstructive pulmonary disease (COPD), reproductive issues, or birth defects. Examples of noncarcinogenic pollutants include:

- Asthma: 2,4-toluene diisocyanate, metals, irritants.
- Chronic obstruction pulmonary disease: Polycyclic aromatic hydrocarbons, metals.
- Reproductive effects: Polychlorinated biphenyls (PCBs), dioxins, organophosphates.
- Birth defects: Lead, mercury, PCBs, toluene.

Risk assessments for noncancer effects use a hazard quotient (HQ), calculated as the ratio of the exposure level to the reference concentration (RfC). For example, if the annual average detected concentration of toluene in the ambient air is 2500 ug/m3 (i.e., the exposure level) and the reference concentration for toluene in ambient air is 5000 ug/m3, the hazard quotient would be 2500 ug/m3 divided by 5000 ug/m3 which equals
0.5. A hazard quotient of 0.5 is less than 1.0 therefore, noncancer health effects would not be expected to occur.

Reference concentrations, which estimate exposure levels unlikely to cause adverse effects, are developed through extensive toxicological assessments and are available in the EPA's Integrated Risk Information System (IRIS). These values are periodically updated by the EPA based on new scientific data.

By evaluating both carcinogenic and noncarcinogenic risks, public health efforts aim to reduce exposure to harmful air pollutants, ensuring the safety and well-being of communities.

AIR POLLUTANT EFFECTS

Potential to Cause Health Effects

The potential for air pollutants to cause health effects depends on a variety of factors (EPA; National Institute of Health; Centers for Disease Control; World Health Organization; and American Lung Association). These factors include the type of chemical, the concentration of pollutant in the air, the frequency and duration of exposure, and individual characteristics such as age, sex, genetics, overall health, and lifestyle factors like tobacco use and diet. For example, in general, the elderly, pregnant women, children, and people with certain pre-exiting health conditions such as asthma or other respiratory diseases are more susceptible to experiencing health effects due to air pollution.

Site-specific exposure conditions and the characteristics of the individual exposed together determine whether or not exposure to a specific air pollutant will result in an adverse health effect.

Costs Associated with Public Health Impacts

LDEQ collaborated with the Louisiana Department of Health to evaluate the potential costs associated with public health impacts from air pollutants in the state. This consultation revealed that additional research is necessary to accurately quantify the health costs linked to Title V air pollutants emitted in Louisiana. Given the complexity of this issue and the scope of the data required, it was determined that additional funding and time are necessary to develop comprehensive and reliable estimates of these costs. This underscores the need for further investment in research to fully understand and address the economic and public health implications of air pollution.

RECOMMENDATIONS

The Community Air Monitoring and Notification System Task Force has outlined recommendations for implementing community air monitoring and notification systems that aim to optimize resources, maximize impact, and foster public trust. These recommendations consider necessary changes to current laws and potential strategies for prioritization, sensor incorporation, and siting.

1. Prioritization of Monitoring Sites: One recommendation would be for the State to prioritize the top 10 - 20% of Title V facilities based on total emissions, toxicity of emissions, and proximity to populations. This phased approach, starting with the highest-priority sources, would limit initial expenditures, allow refinement of monitoring tools, and enable strategic deployment of multiple monitors at the largest emitting facilities or clusters. The EPA's AirToxScreen Tool, which uses census-block-level data, could guide this ranking process and ensure resources are allocated effectively. Subsequent phases could then expand coverage to all Title V facilities.

2. Sensor Incorporation: To complement comprehensive real-time monitoring, another suggestion would be to use simple sensors as sentinel systems in surrounding communities. While these sensors may not provide the detailed data of regulatory-grade monitors, they are capable of detecting plumes and other pollutants moving through community airsheds. This addition would enhance monitoring coverage and fill gaps in data that stationary monitors may miss. As mentioned elsewhere, EPA's AirToxScreen data, which accounts for meteorological conditions and dispersion characteristics, could be used to strategically place these sensors and improve their effectiveness.

3. Siting Strategy: Another recommedation from the Task Force would be to engage the public in determining monitor placement and pollutants to be monitored. This participatory process would ensure optimal siting of monitoring systems while fostering community awareness and trust. Public input would enhance transparency and accountability while building local support for the program.

Attachments

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2024 Regular Session **ENROLLED**

SENATE CONCURRENT RESOLUTION NO. 30

BY SENATOR FIELDS AND REPRESENTATIVE KNOX

A CONCURRENT RESOLUTION

To create the Community Air Monitoring and Notification Task Force to study the implementation of real-time community air monitoring and notification systems for emission sources.

WHEREAS, the Louisiana Department of Environmental Quality's mission is to provide comprehensive environmental protection in order to promote and protect human health, safety, and welfare; and

WHEREAS, Article IX, Section 1 of the Constitution of Louisiana requires the legislature to enact laws to protect, conserve, and replenish the natural resources of the state, including the air, insofar as possible and consistent with the health, safety, and welfare of the people; and

WHEREAS, clean air is a necessity of life for ourselves, plant and animal life, and the entire ecosystem, and polluted air endangers life, nature, and property; and

WHEREAS, air pollution presents serious risks to health, including short-term and chronic respiratory ailments, and in extreme cases, the release of toxic chemicals carry the threat of birth defects, heart disease and other long-term illnesses, cancer, and possibly death; and

WHEREAS, Louisiana is blessed with a convergence of natural resources: plentiful petroleum, natural gas, water, forests, fisheries, and avenues of transportation, including the Mississippi River and the Gulf of Mexico; and

WHEREAS, industry is a major economic engine for our state, employing many of Louisiana's citizens, supporting small businesses, and contributing, both directly and indirectly, substantial revenue to the tax rolls of state and local governments; and

WHEREAS, industry and government must cooperate to ensure that Louisiana's economic productivity does not come at the expense of human health and a clean environment; and

WHEREAS, Louisiana has many emission sources under the Title V Clean Air Act permit program, and reducing pollution and its negative consequences would bolster economic growth; and

WHEREAS, communities located near industrial facilities may be disproportionately impacted by air pollution and its many adverse effects; and

WHEREAS, community air monitoring systems could play a critical role in assessing air quality, identifying sources of pollution, and implementing measures to mitigate harmful emissions, thereby promoting transparency and cooperation between government, industry, and the public; and

WHEREAS, air monitoring systems can detect hazardous air pollutants and criteria pollutants, provide real-time notification to first responders, neighboring communities, and government agencies, and enable informed decision-making when emissions pose a threat to public health; and

WHEREAS, air monitoring systems are in operation throughout the country near major emission sources, demonstrating their viability and reliability; and

WHEREAS, air monitoring of industrial emissions sources is critically important to safeguard public health and protect the environment.

THEREFORE, BE IT RESOLVED that the Legislature of Louisiana does hereby create the Community Air Monitoring and Notification Task Force charged with the responsibility to study the implementation of real-time community air monitoring and notification systems, specifically the costs and benefits of implementation of such systems in communities disproportionately impacted by the negative affects of air pollution.

BE IT FURTHER RESOLVED that the Community Air Monitoring and Notification Task Force shall be composed of the following members:

(1) The secretary of the Department of Environmental Quality, or her designee.

(2) The assistant secretary of the office of public health, within the Louisiana Department of Health, or her designee.

(3) The secretary of the Department of Energy and Natural Resources, or his designee.

(4) A member appointed by the speaker of the House of Representatives.

(5) A member appointed by the president of the Senate.

(6) A member appointed by the chairman of the House Committee on Natural Resources and Environment.

(7) A member appointed by the chairman of the Senate Committee on Environmental Quality.

(8) A member appointed by the Louisiana Environmental Action Network.

(9) A member appointed by the Clean Air Task Force.

(10) A member appointed by the Louisiana Chemical Association.

(11) A member appointed by the Louisiana Mid-Continent Oil and Gas Association.

BE IT FURTHER RESOLVED that the members of the task force shall serve without compensation, except per diem or expenses reimbursement to which they may be entitled individually as members of their constituent organizations.

BE IT FURTHER RESOLVED that the secretary of the Department of Environmental Quality or her designee shall serve as chair of the task force and shall be responsible for providing staff to assist the task force in performing its duties. The task force shall convene its first meeting by August 1, 2024. At such meeting the task force shall adopt rules of procedure, a work schedule, and any additional measures that it deems necessary for the timely performance of its duties.

BE IT FURTHER RESOLVED that the task force shall submit a written report of its findings, conclusions, and recommendations to the House Committee on Natural Resources and Environment and the Senate Committee on Environmental Quality on or before February 15, 2025.

BE IT FURTHER RESOLVED that this report shall include the following:

(1) The effectiveness and benefits of real-time community air monitoring and notification systems in alerting first responders, neighboring communities, and state regulatory agencies of air pollution threats to public health.

(2) Costs required to install, operate, and maintain such systems.

(3) Information on the types of air pollutants emitted by facilities in the state with Title V air permits, the public health impacts associated with those air pollutants, and the costs associated with those public health impacts.

(4) Recommendations for implementing community air monitoring and notification systems and the specific changes to law necessary for such implementation.

BE IT FURTHER RESOLVED that a copy of this Resolution be transmitted to the secretary of the Department of Environmental Quality, the secretary of the Louisiana Department of Health, the secretary of the Department of Energy and Natural Resources, the executive director of the Louisiana Environmental Action Network, and the Clean Air Task Force.

PRESIDENT OF THE SENATE

SPEAKER OF THE HOUSE OF REPRESENTATIVES

Attachment B:
Title V
Facilities

Title V Facility Information			
Agency Interest No.	**Facility Name**	**Physical Address**	**City**
71	Gulf South Pipeline Co LLC - Montpelier Compressor Station	477 Hwy 441	Montpelier
133	Reynolds Metals Company LLC	4040 W Tank Farm Rd	Lake Charles
248	Deltech Monomers OpCo LLC - Baton Rouge Facility	11911 Scenic Hwy	Baton Rouge
264	Texas Eastern Transmission LP - Opelousas Compressor Station	586 Texas Eastern Rd	Opelousas
285	Exxon Mobil Corporation - Baton Rouge Plastics Plant	11675 Scotland Ave	Baton Rouge
286	Exxon Mobil Corporation - Baton Rouge Chemical Plant	4999 Scenic Hwy	Baton Rouge
288	Formosa Plastics Corp Louisiana	N end of Gulf States Rd	Baton Rouge
289	Honeywell International Inc - Baton Rouge Plant	2966 Lupine Ave	Baton Rouge
312	Calumet Cotton Valley Refining LLC - Cotton Valley Refinery	1756 Old Hwy 7	Cotton Valley
328	International Paper Co - Mansfield Mill	1202 Hwy 509	Mansfield
330	Marathon Petroleum Co LP	4663 W Airline Hwy	Garyville
332	ExxonMobil Pipeline Company LLC - Baton Rouge Terminal	3329 Scenic Hwy	Baton Rouge
582	Products (SE) Pipe Line Corporation - Baton Rouge Breakout Tank Farm	2200 Blount Rd	Baton Rouge
584	Southwestern Electric Power Co (SWEPCO) - Lieberman Power Plant	11730 Hwy 538	Mooringsport
588	Bengal Pipeline Company LLC - Baton Rouge Tank Farm	1476 Hwy 61	Jackson
625	Tennessee Gas Pipeline Co - Compressor Station 838	481 Bull Run Rd	Transylvania
626	Tennessee Gas Pipeline Co - Compressor Station 834	552 Hwy 873 W	Extension
682	Phillips 66 Pipeline LLC - Lake Charles Pipeline Facility	1851 Clifton Ridge Rd	Sulphur
687	Entergy Louisiana LLC - Little Gypsy Generating Plant	17420 River Rd	Montz
689	Marathon Pipe Line LLC - Zachary Station	922 US Hwy 61	Jackson
708	Enterprise Gas Processing LLC - Sea Robin Gas Processing Plant	5627 Aristide Rd	Erath
858	Exxon Mobil Corporation - Anchorage Tank Farm	1420 Lafiton Ln	Port Allen
872	The Procter & Gamble Manufacturing Company	3701 Monroe Hwy	Pineville
1006	Citgo Pipeline Co - Clifton Ridge Terminal	2451 Clifton Ridge Rd	Sulphur
1044	Tennessee Gas Pipeline Co - Compressor Station 504	2277 Gravel Hill Church Rd	Pitkin
1060	Southwestern Electric Power Company - Arsenal Hill Power Plant	510 N Allen Ave	Shreveport
1093	Air Liquide Large Industries US LP - Geismar Utility Services	36183 Hwy 30	Geismar
1096	Bayer CropScience LP - Luling Site	12501 River Rd	Luling
1101	DuPont Specialty Products USA LLC - Pontchartrain Site	586 Hwy 44	Laplace
1136	Shell Chemical LP - Geismar Plant	7594 Hwy 75	Geismar
1137	Occidental Chemical Corp - Taft Plant	266 Hwy 3142	Hahnville
1138	Westlake Vinyls Co LP	36045 Hwy 30	Geismar
1140	The J M Smucker Co - Folger Coffee Co - Gentilly Plant	14601 Old Gentilly Rd	New Orleans
1186	EthosEnergy Power Operations (West) LLC - Louisiana Station Electrical Generating Plant #1	300 Gulf States Utility Rd	Baton Rouge
1214	Calumet Shreveport Refining LLC - Calumet Shreveport Refinery	3333 Midway Ave	Shreveport

1224	Calumet Princeton Refining LLC	10234 Hwy 157	Princeton
1238	Valero Refining - Meraux LLC - Meraux Refinery	2500 E St Bernard Hwy	Meraux
1244	Firestone Polymers LLC - Lake Charles Facility	1801 Hwy 108 E	Sulphur
1250	CITGO Petroleum Corp - Lake Charles Manufacturing Complex	4401 Hwy 108 S	Sulphur
1251	W R Grace & Co-Conn - Lake Charles Facility	1800 Davison Rd	Sulphur
1253	Equistar Chemicals LP - Westlake Facility	4101 Hwy 108	Westlake
1255	Westlake US 2 LLC - Westlake Lake Charles South	1300 PPG Dr	Westlake
1272	Arcosa LW BR LLC - Arcosa Lightweight	12652 Hwy 190 W	Erwinville
1291	Cabot Corporation - Ville Platte Plant	2066 Cabot Rd	Ville Platte
1298	St Mary Sugar Cooperative Inc - St Mary Sugar Factory	20056 Hwy 182 W	Jeanerette
1304	Sterling Sugars LLC	611 Irish Bend Rd	Franklin
1305	Alma Plantation LLC - Alma Facility	4612 Alma Rd	Lakeland
1306	Cora-Texas Manufacturing Company LLC - White Castle Facility	32505 LA Hwy 1	White Castle
1309	Raceland Raw Sugar LLC - Raceland Factory	175 Mill St	Raceland
1314	Eco Services Operations Corp - DE - Baton Rouge Sulfuric Acid Plant	1301 Airline Hwy	Baton Rouge
1329	American Sugar Refining Inc - Chalmette Cane Sugar Refinery	7417 N Peters St	Arabi
1347	M A Patout & Son Limited LLC - Enterprise Factory	3512 J Patout Burns Rd	Jeanerette
1357	Cornerstone Chemical Company	10800 River Rd	Waggaman
1376	Chalmette Refining LLC	500 W St Bernard Hwy	Chalmette
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	1111 E Airline Hwy	Gramercy
1395	Exxon Mobil Corporation - Baton Rouge Chemicals North Plant	5955 Scenic Hwy	Baton Rouge
1406	Equilon Enterprises LLC - Norco Refinery	15536 River Rd	Norco
1409	The Dow Chemical Company - Louisiana Operations	21255 Hwy 1	Plaquemine
1432	Graphic Packaging International LLC - West Monroe Mill #31	1000 Jonesboro Rd	West Monroe
1433	Lion Copolymer Geismar LLC - Geismar Facility	36191 Hwy 30	Geismar
1468	Rubicon LLC - Geismar Facility	9156 Hwy 75	Geismar
1481	Cajun Sugar Co LLC - Cajun Sugar Factory	2711 Northside Rd	New Iberia
1514	Ingevity South Carolina LLC - DeRidder Plant	400 Crosby Rd	De Ridder
1556	Advancion Corporation - Sterlington Plant	350 Hwy 2	Sterlington
1607	TotalEnergies Petrochemicals & Refining USA Inc - Cos-Mar Styrene Monomer Plant	6325 Hwy 75	Carville
1617	Lafourche Sugars LLC	141 Leighton Quarters Rd	Thibodaux
1647	Boise Cascade Wood Products LLC - Florien Plywood and Veneer Plant	225 Studeman St	Florien
1708	Chevron Oronite Co LLC - Oak Point Plant	10285 Hwy 23	Belle Chasse
1738	Bunge Chevron Ag Renewables LLC - Destrehan Oilseed Processing Facility	12466 River Rd	Destrehan
1906	CLECO Power LLC - Coughlin Power Station	2180 St Landry Hwy	St. Landry
1945	Tennessee Gas Pipeline Company LLC - Tennessee Gas Pipeline - Station #47	200 Worthey Rd	West Monroe
1959	ANR Pipeline Co - Patterson Compressor Station	3609 Hwy 90 W	Patterson
1993	Hunt Forest Products LLC - Pollock Plywood Mill	1860 Hwy 524	Pollock

2049	BASF Corp - Geismar Site	8404 River Rd (Hwy 75)	Geismar
2062	Air Products & Chemicals Inc - New Orleans Facility	14700 Intracoastal Dr	New Orleans
2073	Hood Container of Louisiana LLC - Saint Francisville Mill	2105 Hwy 964	St. Francisville
2082	Honeywell International Inc - Geismar Plant	5525 Hwy 3115	Geismar
2083	Union Carbide Corp - St Charles Operations	355 Hwy 3142	Hahnville
2142	Trunkline Gas Company LLC - Centerville Compressor Station	1230 Trunkline Ln	Centerville
2144	Trunkline Gas Co LLC - Pollock Compressor Station	328 Forestry Rd 120	Pollock
2218	Linde Inc - Linde Geismar HYCO Facility 595	9154 Hwy 75 / Avenue E	Geismar
2366	Placid Refining Co LLC - Placid Refining Co	1940 Hwy 1 N	Port Allen
2367	Syngenta Crop Protection LLC - St Gabriel Plant	3905 Hwy 75	St. Gabriel
2384	Americas Styrenics LLC - St James Plant	9901 Hwy 18	St. James
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	39018 Hwy 3089	Donaldsonville
2418	Harvest Louisiana Terminals LLC - Alliance Refinery Belle Chasse Terminal	15551 Hwy 23 S	Belle Chasse
2425	Mosaic Fertilizer LLC - Faustina Plant	9959 Hwy 18	St. James
2432	CLECO Power LLC - Teche Power Station	237 Newman St	Baldwin
2448	Tennessee Gas Pipeline Company LLC - Compressor Station 527	26166 Hwy 23 S	Port Sulphur
2455	Westlake Chemicals & Vinyls LLC - Plaquemine Facility	26100 Hwy 405 S	Plaquemine
2518	Orion Engineered Carbons LLC - Ivanhoe Carbon Black Plant	7095 Hwy 83 S	Franklin
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	7250 Hwy 44	Uncle Sam
2538	Phillips 66 Co - Lake Charles Refinery	2200 Old Spanish Trail	Westlake
2555	Southern Natural Gas Co - Franklinton Compressor Station	0.5 Mi SE of Hwys 25 & 10 jct near	Franklinton
2557	Rain CII Carbon LLC - Chalmette Calcining Plant	700 Coke Plant Rd	Chalmette
2565	Transcontinental Gas Pipe Line Company LLC - Compressor Station 65	29507 Hwy 43	Greensburg
2617	Georgia-Pacific Consumer Operations LLC - Port Hudson Operations	1000 W Mt Pleasant Rd	Zachary
2638	Exxon Mobil Corporation - Baton Rouge Refinery	4045 Scenic Hwy	Baton Rouge
2645	International Paper Red River Mill	4537 Hwy 480	Campti
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	10700 Hwy 44	Convent
2780	Columbia Gulf Transmission LLC - Delhi Compressor Station	7179 Hwy 17	Delhi
2827	Louisiana Sugar Cane Cooperative Inc - St Martin Branch	6092 Resweber Hwy	St. Martinville
2839	Columbia Gulf Transmission Co - Rayne Compressor Station	5799 Church Point Hwy	Rayne
2841	Entergy Louisiana LLC - Ninemile Point Electric Generating Plant	1617 River Rd	Westwego
2866	West Fraser Inc - Joyce Sawmill	6481 Hwy 34	Joyce
2913	Transcontinental Gas Pipe Line Company LLC (TRANSCO) - Transco Compressor Station 50	2959 Veterans Memorial Hwy	Mamou
2922	CLECO Power LLC - Brame Energy Center	275 Rodemacher Rd	Lena
2979	Central Crude Inc - Gillis English Bayou Terminal	4916 Hwy 3059	Lake Charles
3109	ANR Pipeline Co - Delhi Compressor Station	1894 Hwy 80 W	Delhi
3116	Alon Refining Krotz Springs Inc	356 S Levee Rd Hwy 105	Krotz Springs
3120	Texas Gas Transmission LLC - Pineville Compressor Station	3983 Hwy 107 S	Pineville

3144	Tennessee Gas Pipeline Company LLC - Compressor Station 40 500C1	195 Hwy 504	Natchitoches
3160	Transcontinental Gas Pipe Line Co LLC (TRANSCO) - Compressor Station #54	1341 Plant Rd	Washington
3165	Marathon Petroleum Company LP - Louisiana Refining Division - Garyville Refinery	4663 W Airline Hwy	Garyville
3227	Ardagh Glass Inc - Ruston Facility	4241 Hwy 563	Simsboro
3247	Texas Gas Transmission LLC - Bastrop Compressor Station	7152 Pumping Station Rd	Bastrop
3263	Taminco - St Gabriel Plant	3790 Hwy 30	St. Gabriel
3269	XTO Energy Inc - Cotton Valley Gas Plant	1256 Marathon Rd	Cotton Valley
3271	Sasol Chemicals (USA) LLC - Lake Charles Chemical Complex	2201 Old Spanish Trail	Westlake
3302	EnLink Processing Services LLC - Riverside Fractionation Plant	10280 Hwy 75	Geismar
3302	EnLink Processing Services LLC - Riverside Fractionation Plant	10280 Hwy 75	Geismar
3349	Shreveport Business Park LLC - Shreveport Assembly Plant	7600 General Motors Blvd	Shreveport
3351	Lake Charles LNG Co LLC - Lake Charles LNG Receiving Terminal	8100 Big Lake Rd	Lake Charles
3400	Occidental Chemical Corporation - Geismar Facility	8318 Ashland Rd	Geismar
3401	Liberty Steel Laplace Inc - LaPlace Facility	138 Hwy 3217	Laplace
3420	LAlumina LLC - Burnside Alumina Plant	41237 Hwy 22	Burnside
3439	Rain CII Carbon LLC - Lake Charles Calcining Plant	1920 Pak Tank Rd	Sulphur
3443	Weyerhaeuser NR Co - Zwolle Plywood & Sawmill	2792 Obrie St	Zwolle
3462	St Rose Refinery LLC - St Rose Refinery	11842 River Rd Lot 2	St. Rose
3492	LBC Baton Rouge LLC - Sunshine Terminal	1725 Hwy 75	Sunshine
3519	Exxon Mobil Corporation - Baton Rouge Polyolefins Plant	12875 Scenic Hwy	Baton Rouge
3544	Occidental Chemical Corporation - Convent Facility	7377 Hwy 3214	Convent
3585	Calcasieu Refining Co - Lake Charles Crude Oil Refinery	4359 W Tank Farm Rd	Lake Charles
3599	Florida Gas Transmission Company LLC - Eunice Compressor Station #7	2747 Fournerat Rd	Eunice
3647	WestRock CP LLC - Hodge Mill	100 Mill St	Hodge
3732	PCS Nitrogen Fertilizer LP - Geismar Facility	5301 Hwy 3115	Geismar
3766	Citgo Petroleum Corp - Lake Charles Truck Loading Facility	4401 Hwy 108 S	Sulphur
3782	Weyerhaeuser Co - Natchitoches Plant	234 Industrial Ave	Natchitoches
4013	Westlake Chemicals & Vinyls LLC - Westlake Lake Charles North	1600 VCM Plant Rd	Westlake
4042	Southern Natural Gas Co - Bear Creek Storage Facility	10275 Hwy 507	Bienville
4045	Boise Cascade Wood Products LLC - Oakdale Plywood and Veneer Plant	140 Van Ply Rd	Oakdale
4174	Tokai Carbon CB Ltd - Addis Facility	5221 Sid Richardson Rd	Addis
4182	Lula Westfield LLC - Lula Sugar Factory	351 Hwy 999	Belle Rose
4197	Southern Natural Gas Company LLC - White Castle Compressor Station	33480 Hwy 405	White Castle
4198	Southern Natural Gas Co - Shadyside Compressor Station	293 Sonat Ln	Centerville
4205	Texas Gas Transmission LLC - Eunice Compressor Station	1661 Coulee Rd	Eunice
4294	Weyerhaeuser NR Co - Dodson Division	706 Hwy 167 N	Dodson
4384	Shell Chemical LP - Norco Chemical Plant West Site	16122 River Rd	Norco
4634	LOOP LLC - Deepwater Port Complex	224 E 101st Pl	Galliano

4762	Enterprise Gas Processing LLC - Tebone Fractionation Plant	10324 Hwy 75	Geismar
4768	Targa LA Operating LLC - Lowry Gas Plant	810 Lowry Hwy 1.5 Mi S of Lowry on LA Hwy 3056	Lake Arthur
4777	Tennessee Gas Pipeline Co - Station 820 C-1	868 #7 Rd	Vinton
4803	BFI Waste Systems of Louisiana LLC - Colonial Landfill	5328 Hwy 70	Sorrento
4832	National Oilwell Varco LP - Amelia North Coating Plant	1844 Hwy 662	Boeuf
4859	Sewerage & Water Board of New Orleans - East Bank STP	6501 Florida Ave	New Orleans
4885	International Matex Tank Terminals LLC - St. Rose Terminal	11842 River Rd	St. Rose
4924	Texas Gas Transmission LLC - Sharon Compressor Station	757 Sharon Rd	Dubach
4998	Birla Carbon USA Inc - North Bend Plant	370 Columbian Chemicals Ln	Centerville
5051	CARBO Ceramics Inc - CARBO Ceramics New Iberia Plant	4810 Industrial Dr	New Iberia
5176	TotalEnergies Petrochemicals & Refining USA Inc - Carville Polystyrene Plant	6225 Hwy 75	Carville
5337	Indorama Ventures Olefins LLC - Westlake Ethylene Plant	4300 Hwy 108	Westlake
5540	Louisiana State University - LSU	LSU	Baton Rouge
5565	NOVA Chemicals Olefins LLC - Geismar Ethylene Plant	5205 Hwy 3115	Geismar
5673	Sewerage & Water Board of New Orleans - Carrollton Water Purification Plant	8800 S Claiborne Ave	New Orleans
5688	Bayou Holdco Inc - The Bayou Companies - New Iberia Facility	5200 Curtis Ln	New Iberia
6164	Westlake Chemical OpCo LP - Westlake Petrochemical Complex	900 Hwy 108	Sulphur
6961	Jefferson Parish Government - Jefferson Parish Sanitary Landfill	5800 Hwy 90 W	Avondale
7127	Transcontinental Gas Pipe Line Co LLC (TRANSCO) - Transco Compressor Station 44	5564 Gulf Beach Hwy (Old Hwy 82)	Johnsons Bayou
7128	Transcontinental Gas Pipe Line Co LLC (TRANSCO) - Transco Compressor Station 45	17333 Hwy 171	Ragley
7129	Transcontinental Gas Pipe Line Co LLC (TRANSCO) - Station 63 Natural Gas Compressor Station	8797 Helvetia St	Convent
7345	Texas Eastern Transmission LP - St Francisville Station #617	17238 Hwy 10	St. Francisville
7359	Texas Eastern Transmission LP - White Castle Compressor Station	55095 Grand Rd	White Castle
7744	McManus Construction LLC - Old Town Road Landfill	4126 Hwy 3059	Lake Charles
7832	Gulf South Pipeline Co LLC - Bistineau Compressor Station	540 United Gas Rd	Ringgold
7835	Agrilectric Power Partners Ltd	3063 Hwy 397	Lake Charles
7883	Texas Gas Transmission LLC - Columbia Compressor Station	124 Texas Gas Rd	Columbia
8007	Florida Gas Transmission Co LLC - Zachary Compressor Station #8	8406 Lower Zachary Rd	Zachary
8097	Gulf South Pipeline Co LLC - Olla Compressor Station	190 Turbine Rd	Olla
8241	Texas Eastern Transmission LP - West Monroe Compressor Station	309 Worthy Rd	West Monroe
8335	ANR Pipeline Co - Eunice Compressor Station	4202 Fournerat Rd	Eunice
8838	Terrebonne Parish Consolidated Government - Houma Generating Station	1551 Barrow St	Houma
8940	Texas Eastern Transmission LP - Larose Station	550 E Third St	Larose
8994	Joint Readiness Training Center (JRTC) and Fort Johnson	Fort Johnson	Fort Johnson

9061	Westlake Polymers LLC - Polyethylene Manufacturing Complex	3525 Cities Service Hwy	Sulphur
9077	Shreveport City of - Woolworth Road Regional Solid Waste Facility	10580 Woolworth Rd	Keithville
9113	Trunkline Gas Co LLC - Patterson Compressor Station	3635 Hwy 90	Patterson
9142	Entergy LA LLC - Nelson Industrial Steam Co (NISCO)	3400 Houston River Rd	Westlake
9154	Shaw Walker LA LLC	30103 Sunland Dr	Walker
9201	Flowers Baking Co of Lafayette LLC	720 W Simcoe St	Lafayette
9210	ANR Pipeline Co - Jena Compressor Station	9992 Hwy 127 S	Jena
9292	Marathon Pipe Line LLC - St James Capline Station	6770 Hwy 18	St. James
9340	St Mary Parish Government - Harold J "Babe" Landry Landfill	752 Thorguson Dr	Berwick
9512	Trunkline Gas Company LLC - Epps Compressor Station	745 Hwy 134	Epps
9632	Texas Eastern Transmission LP - Grand Chenier	1324 Hwy 1143	Creole
9701	Roehm America LLC - MMA Plant	10800 River Rd	Waggaman
9789	Gulf Island LLC - Gulf Island Fabrication	567, 583 & 730 Thompson Rd	Houma
9878	International Paper - Bogalusa Box Plant	501 Avenue U	Bogalusa
10132	Bollinger Shipyards Lockport LLC	8365 Hwy 308 S	Lockport
11059	Specialty Application Services Inc - Port Allen Facility	1331 Hwy 190 W	Port Allen
11394	Shell Pipeline Company LP - Houma Station	1617 Coteau Rd	Houma
11397	Targa LA Operating LLC - Acadia Gas Plant	766 S Plant Rd	Egan
11496	Louisiana Pigment Company LP - Titanium Dioxide Plant	3300 Bayou D'Inde Rd	Westlake
11595	Flowers Baking Co of Baton Rouge LLC - Baton Rouge Facility	1504 Florida Blvd	Baton Rouge
11767	Waste Management of Louisiana LLC - Woodside Landfill & Recycling Center	29375 Woodside Dr	Walker
11917	Louisiana Generating LLC - Big Cajun I Power Plant	7807 River Rd	Jarreau
12241	Waste Management of LA LLC - Magnolia Sanitary Landfill	1000 Russell Sage Rd	Monroe
12389	Jefferson Davis Parish Sanitary Landfill Commission	16157 Landfill Rd	Welsh
12448	Sabine Parish Police Jury - Sabine Parish Sanitary Landfill	995 Sabine Landfill Rd	Many
12483	Interfor US Inc - DeQuincy Division	3442 Hwy 12 E	Dequincy
12889	Natural Gas Pipeline Co of America LLC - Compressor Station #342	652 Deep Bayou Rd	Johnsons Bayou
13028	Trunkline Gas Co LLC - Longville Compressor Station #48	11383 Hwy 171	Longville
13145	Enable Mississippi River Transmission LLC - Unionville Storage Compressor Station	452 Golf Course Rd	Dubach
13703	Texas Gas Transmission LLC - Haughton Compressor Station	6172 Hwy 157 S	Haughton
14544	Southern Natural Gas Co - Logansport Compressor Station	239 Natural Gas Rd	Logansport
16816	Kinetica Deepwater Express LLC - Patterson Terminal	309 Torch Ln	Patterson
16996	Phillips 66 Co - Westlake Products Terminal	1980 Old Spanish Trail	Westlake
17146	Arcosa Marine Products Inc - Plant 1038	150 Hwy 21	Madisonville
17198	Main Pass 72A Production Facility	Main Pass Block 74 Field, Main Pass Area, Revised, Block 72, 26 Mi E of	Venice
17216	Florida Gas Transmission Co LLC - Franklinton Compressor Station #9	18169 Lee Rd	Franklinton
17306	Coushatta Forest Products LLC	306 Wilkinson St	Coushatta

17316	Hood Industries Inc - Bogalusa Sawmill	21501 LA Hwy 21 N	Bogalusa
17632	National Oilwell Varco LP - Amelia South Coating Plant	2112 Hwy 662 N	Amelia
17664	Southern Natural Gas Co - Toca Compressor Station	2400 Bayou Rd	St. Bernard
17715	EnLink Processing Services LLC - Eunice Fractionator	222 Refinery Rd	Eunice
17725	Transcontinental Gas Pipe Line Company LLC - Compressor Station 62	4711 Bayou Black Dr	Gibson
17788	Texas Gas Transmission LLC - Youngsville Compressor Station	4443 Verot School Rd	Youngsville
17846	UOP LLC - UOP Shreveport Plant	8725 Old Mooringsport Rd	Shreveport
17897	Targa Midstream Services LLC	1566 Tidewater Rd	Venice
17904	Westlake Styrene LLC - Marine Terminal	1820 Pak Tank Rd	Sulphur
18070	Westlake Styrene LLC - Styrene Monomer Production Facility	900 Hwy 108	Sulphur
18361	Weeks Island Production Facility	9900 Shell Rd	New Iberia
19184	EnLink LIG Liquids LLC - Plaquemine Gas Processing Plant	60985 Derrick Rd	Plaquemine
19220	St Landry Parish Solid Waste Disposal District - St Landry Parish Landfill	417 Solid Waste Rd	Washington
19390	Sabine Pipe Line LLC - Henry Hub S Booster Station	5319 Aristide Rd	Erath
19444	Lincoln Parish Police Jury – Lincoln Parish Construction/Demolition Debris Landfill	463 Arkansas Plant Rd	Dubach
19483	Entergy Louisiana LLC - Sterlington Generating Plant	101 Boardman Ave	Sterlington
19588	Entergy Louisiana LLC - Roy S Nelson Electric Generating Plant (Coal Unit 6)	3500 Houston River Rd	Westlake
19803	DeSoto Parish Police Jury - Mundy Landfill	Mundy Landfill, 2712 Hwy 84 E	Mansfield
19861	Chevron Pipe Line Co - Empire-Ostrica Terminal	34115 Hwy 11	Buras
19875	Weyerhaeuser NR Co - Holden Wood Products	17391 Florida Blvd	Holden
19901	Cabot Corporation - Canal Plant	272 Cabot Canal Plant Ln @ Hwy 317 S	Centerville
19933	Packaging Corp of America - DeRidder Paper Mill	4200 Hwy 190 W	De Ridder
20036	Acadia Parish Police Jury - Acadia Parish Sanitary Landfill	611 Petal Rd	Egan
20447	TETLP Iowa Liquids Handling Facility	8101 Hwy 3059 W of	Iowa
22750	Future Pipe Industries Inc	15915 Perkins Rd	Baton Rouge
23088	Gulf South Pipeline Co LLC - Clarence Compressor Station	2958 Mammy Trail Rd	Goldonna
23331	Dubach Cryogenic Plant	201 Oak St	Dubach
23638	Gulf South Pipeline Co LLC - Hall Summit Compressor Station	407 Hwy 371	Ringgold
23741	East Bay Central Facility	15 Mi SE of	Venice
24076	Equilon Enterprises LLC - Convent Terminal	Hwys 70 & 44 jct	Convent
24083	Egan Hub Storage LLC - Egan Gas Storage Facility	401 Ida Fruge Rd	Evangeline
25002	Tennessee Gas Pipeline Company LLC - Kinder Compressor Station 823	15449 Parish Line Rd	Kinder
25003	Florida Gas Transmission Co - Port Barre Compressor Station 7.5	2921 Bayou Gerimond Rd	Port Barre
25344	Shell Catalysts & Technologies LP - Port Allen Plant	1699 Catalyst Dr	Port Allen
25491	Reliable Landfill LLC	9533 Moore Ln	Livonia
25905	EnLink LIG Liquids LLC - Gibson Gas Processing Plant	5609 Bayou Black Rd	Gibson
25936	Stericycle Inc - Stericycle Springhill Facility	128 Rex Bryan Dr	Sarepta
25998	EnLink Pelican LLC - Pelican Gas Plant	3609 Hwy 90 W Lot 1	Patterson

26002	Main Pass Block 69 Platform B	12 Mi E of	Pilottown
26003	Valero Refining - New Orleans LLC - St Charles Refinery	14902 River Rd	Norco
26073	Bio-Lab Inc	910 I-10 W	Westlake
26155	North American Shipbuilding LLC - Larose Shipyard	800 Industrial Park Rd	Larose
26336	Shell Chemical LP - Norco Chemical Plant – East Site	15536 River Rd	Norco
26547	Weyerhaeuser NR Co - Arcadia OSB	130 Girl Scout Rd	Simsboro
27079	Bancroft Bag Inc	425 Bancroft Blvd	West Monroe
27281	Bridgeline Holdings LP - Napoleonville Storage Facility	1282 Hwy 70 S	Belle Rose
27399	Discovery Producer Services LLC - Larose Gas Processing Plant	1474 Hwy 24	Larose
27518	Westlake Petrochemicals LLC - Poly III	900 Hwy 108	Sulphur
27557	Acadian Contractors Inc	17102 W Hwy 330	Abbeville
27646	Colonial Pipeline Co	1476 Hwy 61	Jackson
27985	Minden Gas Plant	323 Angie Rd	Minden
28079	Ecological Tanks Inc	2247 Hwy 151 N	Downsville
29884	Baton Rouge Calcined Coke Plant	2200 Brooklawn Dr	Baton Rouge
30073	BASF Corp - North Geismar Site	36637 B Hwy 30	Geismar
30118	Folger Coffee Co - Specialty Plant	5500 Chef Menteur Hwy	New Orleans
31128	East Baton Rouge Parish North Landfill	16001 Samuels Rd	Zachary
31513	Air Liquide Large Industries US LP - Geismar Facility	36597 Hwy 30	Geismar
31557	Southern Natural Gas Co - Bienville Compressor Station	10275 Hwy 507	Bienville
31656	Gulf South Pipeline Co LLC - Koran Compressor Station	4135 Camp Joy Rd	Haughton
31678	Enable Gas Transmission LLC - Red Chute Compressor Station	Bellevue Rd, 1 Mi N of	Red Chute
31865	ET Gathering & Processing LLC - West Teal Compressor Station	2.5 Mi E of	Haynesville
32061	Transcontinental Gas Pipe Line Co LLC (TRANSCO) - Compressor Station 60	2988 Hwy 964	Jackson
32219	River Birch LLC - River Birch Landfill	2000 S Kenner Rd	Avondale
32292	Clovelly Field Central Facility	4 Mi NE of	Galliano
32484	Martco LLC - Chopin Mill	1695 Hwy 490	Chopin
32494	Entergy New Orleans LLC - Michoud Electric Generating Plant - New Orleans Power Station	3601 Paris Rd	New Orleans
32528	Enable Gas Transmission LLC - Perryville Compressor Station	0.5 Mi SE of	Perryville
32572	Breton Sound Area Block 20-21 Field Central Facility	24.5 Mi NE of	Boothville
32607	Quarantine Bay Compressor Station	5.5 Mi NNE of	Buras
32615	Targa Midstream Services LLC - Delta Gathering Station	1565 Tidewater Rd	Venice
32656	Main Pass Block 35 Central Facility - Main Pass Block 35 Field	offshore 9 Mi E of Pilottown & 7 Mi N of	Boothville
32712	Pecten Midstream LLC - Main Pass 69P Facility	16 Mi NE of	Pilottown
32739	PQ LLC - Pineville Plant	4000 Pardue Rd	Ball
32742	Boise Cascade Wood Products LLC - Alexandria Engineered Wood Products Facility	8835 Hwy 1 N	Lena
32798	ExxonMobil Pipeline Company LLC - Sugarland Pipeline Station/Terminal	6525 Dept of Energy Rd	St. James
32804	Rain CII Carbon LLC - Gramercy Coke Plant	1140 Jefferson Hwy	Gramercy
32855	Latham Pool Products Inc - Latham Pool Products - LA	1407 Anse Broussard Hwy	Breaux Bridge

32971	Eagle Railcar Services - Zwolle Louisiana LLC	1439 N Main St	Zwolle
32991	TRANSCO - Bayou Black Natural Gas Dehydration Condensate Stabilization & Handling Facility	4711-A Bayou Black Dr	Gibson
33030	Empire Midstream LLC - Gibson Station	5317 Bayou Black Dr	Gibson
33192	Ship Shoal 64 A Production Facility	Ship Shoal Area, Block 64, Ship Shoal Block 65 Field	Cocodrie
33252	Texas Petroleum Investment Company - West White Lake 540-B Facility	19.0 Mi SW of	Gueydan
33270	EnLink Midstream Operating LP - Jefferson Island Storage & Hub LLC	11408 Hwy 89	Erath
33406	ET Gathering & Processing LLC - Springhill Compressor Station	5.5 Mi E of	Springhill
33529	Southern Packaging	7271 Hwy 190 W	Port Allen
34017	Turner Industries Group LLC - Pipe Fabrication Division	4800 Carl W Bauer Rd	New Iberia
35260	Entergy Operations Inc - Waterford 3 Steam Electric Station	17265 River Rd	Killona
36538	NuStar Logistics LP - St James Terminal	7167 Koch Rd	St. James
37119	CITGO Pipeline Co - Pecan Grove Tank Farm	4611 Hwy 1133	Sulphur
38867	Louisiana Generating LLC - Big Cajun II Power Plant	10431 Cajun II Rd (LA Hwy 981) 2 Mi E Hwy 415 jct	New Roads
38936	International Paper - Bogalusa Mill	401 Avenue U	Bogalusa
39129	Graphic Packaging International LLC - West Monroe Packaging Plant #70	1070 Jonesboro Rd	West Monroe
40198	Enterprise Products Operating LLC - Baton Rouge Fractionator & Propylene Concentrator Unit	2220 N River Rd	Port Allen
41194	WCI - White Oaks Landfill Inc	588 Meadowlark Dr	Monroe
42344	Lula Westfield LLC - Westfield Sugar Factory	451 Hwy 1005	Paincourtville
42895	Linde Inc - Sulphur Plant	4451 S Hwy 108	Westlake
42929	Promix Fractionation Plant	6225 Hwy 996	Belle Rose
43185	Sea Robin Pipeline Co LLC - Erath Compressor Station	15910 Hwy 331	Erath
43470	Tangipahoa Parish Regional Solid Waste Facility	57510 Hano Rd	Independence
43501	Enterprise Gas Processing LLC - Neptune Gas Plant	120 Trunkline Gas Ln	Centerville
43506	Tensas Parish Police Jury - Tensas Parish Sanitary Landfill	191 Walker Rd	St. Joseph
43959	Kronospan Simsboro LLC	486 Duraflake Rd	Simsboro
44216	Enable Mississippi River Transmission LLC - Perryville Compressor Station	2589 Hwy 554	Bastrop
44723	Texas Gas Transmission LLC - Guthrie Station	129 Texas Gas Rd	Sterlington
44779	Columbia Gulf Transmission LLC - Alexandria Compressor Station	7666 Hickory Grove Loop	Deville
44866	Rain CII Carbon LLC - Norco Coke Calcining Plant	801 Prospect Ave	Norco
50619	Cheniere Creole Trail Pipeline LP - Gillis Compressor Station	1970 Texas Eastern Rd	Ragley
51546	Enterprise Gas Processing LLC - Norco Fractionation Plant	15608 Hwy 61	Norco
51692	Cameron Parish Police Jury - Sweet Lake Solid Waste Collection Site	696 Lebouef Rd	Sweet Lake
51854	Carville Energy LLC - Carville Energy Center	4322 Hwy 30	St. Gabriel
52277	Louisiana Regional Landfill Co - Timberlane Landfill	1158 Landfill Rd	Oakdale
67572	Veolia North America Regeneration Services LLC - Veolia Burnside Plant	3460 Hwy 44	Darrow

69378	Union Parish Sanitary Landfill	120 Landfill Rd	Farmerville
81859	Entergy Louisiana LLC - Calcasieu Plant	1519 Davison Rd	Sulphur
83425	Shintech Louisiana LLC - Addis Plant A	9750 Hwy 1 S	Addis
83613	Entergy Arkansas LLC - Ouachita Power Generating Plant	350 Harvey Gregg Rd	Sterlington
83619	Entergy Louisiana LLC - Washington Parish Energy Center	18457 Power Line Rd	Bogalusa
83623	Cleco Power LLC - Acadia Power Station	30385 Crowley Eunice Hwy	Eunice
83898	Entergy Louisiana LLC - Waterford 1 & 2 Electric Generating Plant	17705 River Rd	Killona
84724	Rain CII Carbon LLC - Chalmette Terminal Facility	100 Coke Plant Rd	Chalmette
84822	McManus Construction LLC - Evergreen Facility	1500 Evergreen Site Rd	Sulphur
84966	Ada Plant	Black Lake Rd 2 Mi S of	Ada
85068	Winn Lumber Co LLC - Winnfield Sawmill	229 Thomas Mill Rd	Winnfield
85534	Republic Waste	493 Landfill Rd	Minden
85793	Entergy Louisiana LLC - Perryville Generating Station	11140 Hwy 165 N	Sterlington
86857	Eloi Bay Platform #1	17 Mi SE of	Hopedale
87616	Ouachita City Mid-LA #1 Compressor Station	Ouachita City Parish Rd	Ouachita City
87738	Stolthaven New Orleans LLC - Braithwaite Facility	2444 English Turn Rd	Braithwaite
89237	INEOS Oxide - A Division of INEOS Americas LLC	21255A Hwy 1 South	Plaquemine
90671	C&C Marine & Repair LLC	701 Engineers Rd	Belle Chasse
92534	Hexion Inc - Geismar Facility	4338 Hwy 73	Geismar
92706	Bayou Cove Peaking Power LLC - Bayou Cove Peaking Power Plant	118 Bergeaux Rd	Evangeline
93523	Valero Terminaling & Distribution Co - Meraux Terminal	2500 E St Bernard Hwy	Meraux
93675	Conrad Shipyard LLC - Deepwater Shipyard	995 Duhon Blvd	Amelia
97781	American Panther LLC - Ft Henry Gas Separation Facility	Hwy 14 S, 4.75 Mi of Hwy 331	Henry
99407	Cameron LNG LLC - Cameron LNG Facility	301 N Main St	Hackberry
103295	Bunge North America Inc - Destrehan Grain Elevator	12442 River Rd	Destrehan
104090	Discovery Producer Services LLC - Discovery Paradis Fractionation Plant	15849 Old Spanish Trail	Paradis
119267	Sabine Pass LNG LP and Sabine Pass Liquefaction LLC - Sabine Pass LNG Terminal	9243 Gulf Beach Hwy	Cameron
119640	Lafayette Consolidated Government - T J Labbe Electric Generating Station	208 Renaud Dr	Lafayette
121323	ET Gathering & Processing LLC - Goat Hill Compressor Station	Goat Hill Rd, 7 Mi S of I-20	Haughton
121572	Lafayette Consolidated Government - Hargis-Hebert Electric Generating Station	300 Beau Pre Rd	Lafayette
122402	IMTT-Geismar - Geismar Logistics Center	8112 Hwy 75	Geismar
123347	Pine Prairie Energy Center LLC / Pine Prarie Energy Center - A Hartree Natural Gas Storage Facility	1680 Ambrose Rd	Ville Platte
125298	Martco LLC - Oakdale OSB Plant	192 Pawnee Rd	Oakdale
126516	Holly Common Point #3 Compressor Station	0.5 Mi S of	Kingston
126578	Shintech Louisiana LLC - Shintech Plaquemine Plant	26270 Hwy 405 S	Plaquemine
127089	Port Barre Investments LLC - Bobcat Gas Storage Facility	19210 Hwy 190	Port Barre
128335	LA Storage LLC - Ragley Compressor Station	1055 Coonie Jackson Rd	Ragley
129733	Plains Marketing LP - St James Terminal	6375 Hwy 18	St. James

130128	Bollinger Amelia Operations LLC - Amelia Operations	816 Bollinger Ln	Amelia
132953	Louisiana Waste Solutions LLC - Jennings C&D Facility Type III Landfill	S Cutting Ave 1.3 Mi S of Hwy 1126	Jennings
134011	McManus Construction Inc - Carlyss C&D Landfill	498 E Dave Dugas Rd	Sulphur
138060	LASHIP LLC	367 Dickson Rd	Houma
144688	Mt Airy Terminal LLC - Mt Airy Terminal	4006 Hwy 44	Mount Airy
145506	JELD-WEN	465 Tannehill Rd	Dodson
148866	Harvest Midstream Co - Kaplan Gas Plant	18422 LA Hwy 35	Abbeville
152139	Arq Solutions (Red River) LLC - Red River Plant	201 Red River Mine Rd	Coushatta
153989	Midcontinent Express Pipeline LLC - Perryville Compressor Station	545 Mashaw Dr, W of Hwy 2	Farmerville
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	9101 Hwy 3125	Convent
158683	LA Storage LLC - Pelican Compressor Station	400 Black Lake Rd	Hackberry
165099	Holyfield Tree Service - McPherson Systems Air Curtain Destructor 20 t/hr SN 46540076	Portable	Statewide
165286	Louisiana Sugar Refining LLC - Louisiana Sugar Refining Gramercy	1230 S Fifth Ave	Gramercy
165400	LA Midstream Gas Services LLC - North DeSoto Central Facility	1679 Gravel Point Rd	Frierson
166214	Magnolia Station	4 Mi NE of	Hall Summit
166249	Hall Summit Compressor Station	Hwys 371 & 7, 5.87 Mi S of	Ringgold
166277	Clear Lake Amine Plant	221 Yearwood Rd	Shreveport
166443	FloPam Inc - Flopam Facility	26790 Hwy 405	Plaquemine
166494	ETC Tiger Pipeline LLC - Bienville Compressor Station	off PR 496, 2.44 Mi NW of	Lucky
166495	ETC Tiger Pipeline LLC - Chatham Compressor Station	off Hwy 146, 2.12 Mi NW of	Chatham
166496	ETC Tiger Pipeline LLC - Cannisnia Compressor Station	PR 410, 4.57 Mi NW of	Williams
168018	Diamond Green Diesel LLC - Green Diesel Plant	14891 E Airline Hwy	Norco
168425	Enterprise Products Operating LLC - Battlefield Gas Plant	3461 Hwy 513	Mansfield
168549	Converse Central Facility	4513 Hwy 513	Mansfield
169661	Acadian Gas Pipeline System - Mansfield Compressor Station	2504 Hwy 174	Pleasant Hill
169758	Acadian Gas Pipeline System - Cheneyville Compressor Station	.8 Mi N of Bayou Rd & Jeff Horn Rd	Cheneyville
169873	Gulf South Pipeline Company LLC - Tallulah Compressor Station	589 Gulf South Compressor Station Rd	Tallulah
169878	Robeline Amine Plant	1775 Central Loop	Robeline
169879	Chatman Compressor Station	1324 Antioch Rd	Mansfield
173980	Latchco LLC	1659 Nina Hwy	Breaux Bridge
175505	TSRC Specialty Materials LLC - Plaquemine Manufacturing Plant	21255 Hwy 1 S Bldg 4350	Plaquemine
179048	Louisiana Energy & Power Authority (LEPA) - Morgan City Power Plant	1333 Youngs Rd	Morgan City
181192	Methanex USA Services LLC - Geismar Methanol Plant	4171 Hwy 73 (former gate at 4279)	Geismar
183215	Morehouse BioEnergy LLC	7070 Carl Rd	Bastrop
183703	SE Tylose USA Inc & Its Affiliates - Plaquemine Plant	26270 Hwy 405	Plaquemine
184235	CF Industries East Point LLC - Waggaman Complex	10800 River Rd	Waggaman

184545	Cameron Interstate Pipeline LLC - Holbrook Compressor Station	9.6 Mi NW of	Moss Bluff
184770	Avocet LNG LLC - Grand Chenier Liquid Handling & Gas Dehydration Facility	192 Mermentau River Rd	Grand Chenier
184873	EnLink Processing Services LLC - Plaquemine NGL Fractionation Plant	60985 Derrick Rd	Plaquemine
185422	PPG Industries Inc - Silica Plant	3150 Pete Manena Rd	Westlake
185544	LaSalle BioEnergy LLC	4915 Hwy 125	Urania
185670	Benteler Steel/Tube Manufacturing Corp	1 Benteler Dr	Shreveport
185924	Kinder Morgan Liquids Terminals LLC - Geismar Methanol Terminal	4145 Hwy 73	Geismar
191748	Bollinger Fourchon LLC - Bollinger Fourchon North	236 Adam Ted Gisclair Rd	Golden Meadow
191783	Trunkline Gas Co LLC - Iowa Compressor Station	Dennison Rd	Iowa
192380	Kinder Morgan LA Pipeline LLC - Eunice Compressor Station No 760	1949 Coulee Rd	Eunice
193749	Bayou Long Mobile Production Facility	Bayou Long Field	St. Martinville
194165	Koch Methanol St James LLC - Koch Methanol Facility	6586 Hwy 3127	St. James
194203	Venture Global Calcasieu Pass LLC - Calcasieu Pass LNG Project	671 Davis Rd	Cameron
195519	Lotte Chemical Louisiana LLC	2200 Bayou D'Inde Pass	Westlake
195747	Delfin LNG LLC	1 Mi W of intersection of State Route 82	Cameron
196702	Blue Cube Operations LLC	21255 Hwy 1 S	Plaquemine
196978	Lake Charles Methanol II LLC - Lake Charles Methanol Facility	3464 Bayou d'Inde Rd	Westlake
197303	Entergy Louisiana LLC - J. Wayne Leonard Power Station	17420 River Rd	Montz
197379	Venture Global Plaquemines LNG LLC - Plaquemines LNG Terminal	19000 Highway 23	Point Celeste
198351	FG LA LLC - Sunshine Project Early Works	8846 Hwy 3127	St. James
198831	Halo Rental Sales & Services LLC - Air Curtain Incinerator	12093 River Rd	Baton Rouge
199310	Denka Performance Elastomer LLC - Pontchartrain Plant	560 Hwy 44	Laplace
199443	MMP SCO LLC	355 Hwy 3142	Taft
200116	Tampa Port Services LLC - Faustina Plant	9959 Hwy 18	St. James
201334	Driftwood LNG LLC	1170 Burton Shipyard Rd	Sulphur
201358	MPLX Terminals LLC - Garyville Terminal	Hwy 61 @ Marathon Ave	Garyville
202543	Entergy Louisiana LLC - Lake Charles Power Station	3140 Houston River Rd	Westlake
203831	LACC LLC US - Ethylene & Derivatives Plant	2200 Bayou D'Inde Pass	Westlake
204445	Graphic Packaging International LLC	430 Hwy 594	Monroe
204446	Valero Terminaling & Distribution Co - Norco Pump Station	538 Prospect Ave	Norco
204958	DTM Louisiana Gathering LLC - Longstreet Facility	1003 Dairy Rd	Keatchie
205247	Driftwood Pipeline LLC - Gillis Compressor Station	5430 Par Rd 9-383-B (Hecker Rd)	Iowa
206116	Sierra Frac Sand LLC - Cedar Bluff Plant	350 Ballard Rd	Plain Dealing
209047	Linde Inc - Geismar HYCO Syngas Separation Unit	36637 Hwy 30	Geismar
209489	Garyville Refining Logistics LLC	4663 W Airline Hwy	Garyville
210207	LaSalle Lumber Co LLC - Urania Sawmill	5189 LA Hwy 125 (Tannehill Dr)	Olla

212290	Lake Charles LNG Export Co LLC - Lake Charles LNG Exporting Terminal	8100 Big Lake Rd	Lake Charles
212498	Air Liquide Advanced Technologies US LLC - ALATUS RNG Project - Timberlane	3 Mi NE of	Oakdale
212862	Ergon Moda St James	7405 Hwy 18	St. James
216362	Nutrition & Biosciences USA 1 LLC - Plaquemine Methocel	21255 Hwy 1 Block 45	Plaquemine
217594	Columbia Gulf Transmission LLC - Chicot Compressor Station	1612 St Landry Hwy - Building A	St. Landry
217596	Columbia Gulf Transmission LLC - Red Mountain Compressor Station	1038 Catahoula Church Rd	Enterprise
217972	Shelburn Compressor Station	420 T C Energy Rd	Lake Providence
219605	ANR Pipeline Co - Mermentau Compressor Station	4540 Dugas Rd	Jennings
220178	Entergy Louisiana LLC - Louisiana Station Electrical Generating Plant 2	300 Gulf States Utility Rd	Baton Rouge
220199	Beauregard Parish Compressor Station	1.2 Mi E of Hwy 171 S of	Ragley
220934	Triton Stone Group New Orleans LLC - Triton Stone Industrial Yard	6000 Jourdan Rd	New Orleans
221642	Commonwealth LNG LLC - Commonwealth LNG & Pipeline Project	500 Gulf Beach Hwy	Cameron
222431	Magnolia Power LLC - Magnolia Power Generating Station Unit 1	26620 River Rd	Plaquemine
223003	LA Minerals 28 Amine Treating Facility	3 Mi E of	Sardis
226602	Louisiana Integrated Polyethylene JV LLC	2201 Old Spanish Trail	Westlake
227184	Vopak Industrial Infrastructure Americas Plaquemine LLC - VIIA Terminal Plaquemine	21255 LA Hwy 1	Plaquemine
227637	Vopak Industrial Infrastructure Americas St Charles LLC - Vopak Terminal St. Charles	355 Hwy 3142	Hahnville
227896	Bia Energy Operating Co LLC - ALMA1 Methanol Plant	Intersection of Francis Bickham Blvd & LA Hwy 1	Shreveport
228407	Golden Pass Pipeline LLC - Starks Compressor Station	From Starks head NE on LA-12 for 4 Mi then turn left onto Oil Tank Rd and drive until the end	Starks
228471	SafeSource Direct LLC	142 Lake Talon Rd	Broussard
228914	Bollinger Houma Shipyards LLC -Bollinger Houma Shipyards	301 Bollinger Ln	Houma
229293	Indian Bayou Compressor Station	610 Gaytine Rd	Ragley
230511	Bienville Lumber Company LLC - Taylor Sawmill	1643 Hwy 80	Taylor
230550	CSP DeRidder LLC - DeRidder Sawmill	4427 Hwy 190 W	De Ridder
234200	Teal Jones - Plain Dealing LLC - Teal Jones Sawmill	9180 Hwy 3	Plain Dealing
234532	Mitsubishi Chemical America Inc - MCA Geismar Site	36453 Hwy 30	Geismar
235315	Melissa 2.10 Test AI	132	Mamou
236217	TC Louisiana Intrastate Pipeline LLC - Gillis Compressor Station	From Gillis on Hwy 171 head E on Topsy Rd, turn left onto Par Rd 9-41-A-1/Texas Eastern Rd	Ragley
237006	New Generation Gas Gathering LLC - Gillis Treating Facility	SE of the intersection of Texas Eastern Rd and Al Cormier Rd	Ragley

237065	Ajax Amine Plant	From Pleasant Hill drive E on Hwy 174 for 4 Mi until you reach Bowden Rd.	Pelican
238207	New Generation Gas Gathering LLC - Grove Hill Booster Station	0.5 Mi W of the intersection of Emanuel Church Rd and Strahan Rd	Pleasant Hill
238213	Cenla Green Waste LLC	9549 Hwy 28 E	Pineville
240100	Element 25 (Louisiana) LLC - Element 25 HPMSM Plant	In Ascension Parish	Darrow
242363	Dow InfraCo LLC - Louisiana Operations	21255 Hwy 1	Plaquemine

Attachment : Title V Compounds

Title V Permit Compounds	
1,1,1-Trichloroethane	Ethyl Acrylate
1,1,2,2-Tetrachloroethane	Ethyl benzene
1,1,2-Trichloroethane	Ethylene
1,1-Dichloroethane	Ethylene glycol
1,1-Dimethylhydrazine	Ethylene oxide
1,2,3,4,6,7,8,9-Octachlorodibenzodioxin	Ethyleneimine
1,2,3,4-Tetramethylbenzene	Ethylenethiourea
1,2,4-Trichlorobenzene	Formaldehyde
1,2-Dibromo-3-chloropropane	Glycol ethers (Table 51.1)
1,2-Dibromoethane	Glycol ethers (Table 51.3)
1,2-Dichlorobenzene	Heptachlor
1,2-Dichloroethane	Hexachlorobenzene
1,2-dichloroethylene	Hexachlorobutadiene
1,2-Dichloropropane	Hexachlorocyclopentadiene
1,2-Dimethoxyethane	Hexachloroethane
1,2-Diphenylhydrazine	Hexamethylene diisocyanate
1,2-Epoxybutane	Hexamethylphosphoramide
1,2-Epoxyethylbenzene	Hydrazine
1,2-Oxathiolane 2,2-dioxide	Hydrochloric acid
1,3-Butadiene	Hydrofluoric acid
1,3-Dichloropropene	Hydrogen
1,4-Dichlorobenzene	Hydrogen cyanide
1,4-Dioxane	Hydrogen sulfide
1-Methylnaphthalene	Hydroquinone
2,2,4-Trimethylpentane	Iodomethane
2,3,7,8-Tetrachlorodibenzo-p-Dioxin	Isophorone
2,4,5-Trichlorophenol	Lead
2,4,6-Trichlorophenol	Lead compounds
2,4-Dichlorophenoxyacetic Acid	Lindane
2,4-Dinitrophenol	Maleic anhydride
2,4-Dinitrotoluene	Manganese (and compounds)
2,4-Toluene diamine	Mercury (and compounds)
2,6-Dinitrotoluene	Methanol
2-Acetylaminofluorene	Methoxychlor
2-Methylnaphthalene	Methyl bromide
2-nitro-Propane	Methyl Cellosolve Acetate
3,3'-Dichlorobenzidine	Methyl ethyl ketone
4,4'-Methylenebis-(2-Chloroaniline)	Methyl isobutyl ketone
4,4'-Methylenebisbenzeneamine	Methyl Isocyanate
4,6 Dinitro-o-cresol	Methyl methacrylate
4-Aminodiphenyl	Methyl Tertiary Butyl Ether
4-Dimethylaminoazobenzene	Methylene diphenyl diisocyanate
4-Nitrobiphenyl	Methylnaphthalene
4-Nitrophenol	Monomethyl hydrazine
Acetaldehyde	N,N-Diethyl aniline
Acetamide	N,N-dimethylbenzenamine
Acetone	Naphthalene
Acetonitrile	Naphthalene (and Methyl naphthalenes)
Acetophenone	n-butyl alcohol

Acrolein	n-Hexane
Acrylamide	Nickel (and compounds)
Acrylic acid	Nitric acid
Acrylonitrile	Nitrobenzene
Allyl chloride	Nitrogen dioxide
alpha-Chloroacetophenone	Nitrogen Oxides
Amiben	Nitrous Oxide
Ammonia	N-Nitrosodimethylamine
Aniline	N-Nitrosomorpholine
Antimony (and compounds)	N-Nitroso-N-Methylurea
Arsenic (and compounds)	o-Aminoanisole
Asbestos	o-dianisidine
Barium (and compounds)	ortho-Tolidine
Benzene	ortho-Toluidine
Benzidine	Ozone Depleting Substances
Benzotrichloride	p,p'-DDE
Benzyl chloride	para-Phenylenediamine
Beryllium (Table 51.1)	Parathion
beta-Propriolactone	Particulate matter (10 microns or less)
Biphenyl	Particulate matter (2.5 microns or less)
Bis(2-chloroethyl) ether	Pentachloronitrobenzene
bis(2-ethylhexyl)phthalate	Pentachlorophenol
bis(Chloromethyl)ether	Phenanthrene
Bromoform	Phenol
Butene (mixed isomers)	Phosgene
Cadmium (and compounds)	Phosphine
Calcium cyanamide	Phosphoric acid
Captan	Phosphorus, Total (as P)
Carbaryl	Phthalic Anhydride
Carbon dioxide	Polychlorinated biphenyls
Carbon disulfide	Polycyclic Organic Matter (POM)
Carbon monoxide	Polynuclear Aromatic Hydrocarbons
Carbon tetrachloride	Propionaldehyde
Carbonyl sulfide	Propoxur
Chlordane	Propylene
Chlorinated dibenzofurans	Propylene oxide
Chlorinated Dibenzo-P-Dioxins	Propylenimine
Chlorine	Pyridine
Chlorine dioxide	Pyrocatechol
Chloroacetic acid	Quinoline
Chlorobenzene	Quinone
Chloroethane	Selenium (and compounds)
Chloroform	Styrene
Chloromethane	Sulfur dioxide
Chloromethyl methyl ether	Sulfur Trioxide
Chloroprene	Sulfuric acid
Chromium VI (and compounds)	Tetrachloroethylene
CO2e	Titanium tetrachloride
Cobalt compounds	Toluene
Copper (and compounds)	Toluene-2,4-diisocyanate

Cresol	Toluene-2,6-Diisocyanate
Cumene	Total fluorides
Cyanide compounds	Total Reduced Sulfur
Diaminotoluene (mixed isomers)	Total suspended particulate
Diazomethane	Toxaphene
Dibutyl phthalate	Toxic air pollutants (TAP)
Dichlorobenzene	trans-1,3-Dichloropropene
Dichlorobromomethane	Trichloroethylene
Dichloromethane	Triethyl amine
Dichlorvos	Trifluralin
Diethanolamine	Urethane
Diethyl Sulfate	Vinyl acetate
Dimethyl formamide	Vinyl bromide
Dimethyl phthalate	Vinyl chloride
Dimethyl sulfate	Vinylidene chloride
Dimethylcarbamoyl chloride	VOC, Total
Dioxins and furans (D/F)	Xylene (mixed isomers)
Epichlorohydrin	Zinc (and compounds)
Ethyl 4,4'-Dichlorobenzilate	

ch D:
D: TO-15TO-15

LDEQ TO-15 Parameters	
1-1-1-TRICHLOROETHANE	CHLOROFORM
1-1-2-2-TETRACHLOROETHANE	CHLOROMETHANE
1-1-2-TRICHLORO-1-2-2-TRIFLUOROETHANE (FREON-113)	CIS-1-2-DICHLOROETHYLENE
1-1-2-TRICHLOROETHANE	CIS-1-3-DICHLOROPROPENE
1-1-DICHLOROETHANE	DICHLORODIFLUOROMETHANE (FREON-12)
1-1-DICHLOROETHENE	DIETHYL ETHER (ETHYL ETHER)
1-2-4-TRICHLOROBENZENE	ETHYL BENZENE
1-2-4-TRIMETHYLBENZENE	ETHYL METHACRYLATE
1-2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	HEXACHLOROBUTADIENE
1-2-DICHLOROBENZENE	METHYL ACRYLATE
1-2-DICHLOROETHANE	METHYL ETHYL KETONE (2-BUTANONE)
1-2-DICHLOROPROPANE	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)
1-2-DICHLOROTETRAFLUOROETHANE (FREON-114)	METHYL METHACRYLATE
1-3-5-TRIMETHYLBENZENE (MESITYLENE)	METHYLACRYLONITRILE
1-3-BUTADIENE	METHYLENE CHLORIDE
1-3-DICHLOROBENZENE	N-BUTYL CHLORIDE
1-4-DICHLOROBENZENE	NITROBENZENE
2-HEXANONE	NITROPROPANE
ACETONE	O-XYLENE (1-2-DIMETHYLBENZENE)
ACETONITRILE	STYRENE
ACRYLONITRILE	TERT-BUTYL METHYL ETHER
ALLYL CHLORIDE (3-CHLOROPROPENE)	TETRACHLOROETHYLENE (PCE)
BENZENE	TETRAHYDROFURAN
BENZYL CHLORIDE	TOLUENE
BROMOMETHANE	TRANS-1-3-DICHLOROPROPENE
CARBON DISULFIDE	TRICHLOROETHYLENE (TCE)
CARBON TETRACHLORIDE	TRICHLOROFLUOROMETHANE (FREON-11)
CHLOROACETONITRILE	VINYL CHLORIDE
CHLOROBENZENE	XYLENES- M & P
CHLOROETHANE	

ch E:

Approximate LDEQ Costs Associated with a New Monitoring Site			
ITEM	**Approximate Unit Price**	**Approximate Unit Price**	**Sub Total**
Ground cover / limestone (cost varies, depending on area)	$1,700	$1,700	$1,700
Fence (depending on area)	$5,500	$5,500	$7,200
Installation of electrical pole and connection	$3,600	$3,600	$10,800
Building (10x16)	$32,500	$32,500	$43,300
Cost to move building to site location (cost varies, depending on location/distance)	$1,800	$1,800	$45,100
AC Unit (2 required)	$2,500	$2,500	$47,600
Data Logger (ESC Model #8872)	$13,000	$13,000	$60,600
Router (data logger remote access, Cradlepoint COR IBR200)	$400	$400	$61,000
Wireless Plan ($55 per month, estimate)	$660	$660	$61,660
Site Safety Ladder	$1,200	$1,200	$62,860
Manifold Parts	$1,500	$1,500	$64,360
Manifold Blower	$140	$140	$64,500
Manometer	$58	$58	$64,558
Teflon Tubing (50ft roll)	$175	$175	$64,733
Zero Air Generator -Teledyne Model 701H	$9,700	$9,700	$74,433
Dynamic Dilution Calibrator -Teledyne Model # 700 w/ O3 Generator & Photometer Option	$26,500	$26,500	$100,933
VOC Canister Sampler (24-Hour canister every 6 days) - Xonteck 911 Includes analysis for 1-year (61 Samples @ $330 each)	$32,580	$32,580	$133,513
VOC Canister Strike Sampler - Xonteck 911/912 Includes analysis for 1-year (Estimated 18 Samples @ $330 each)	$24,865	$24,865	$158,378
H2S Analyzer - Teledyne Model T101 Expendibles Kit for H2S Analyzer: One Year Operation Calibration Gas for H2S, Solenoid Valves and Regulator	$22,678	$22,678	$181,056
SO2 Analyzer - Teledyne Model T100 Expendibles Kit for SO2 Analyzer: One Year Operation Calibration Gas for SO2, Solenoid Valves and Regulator	$20,345	$20,345	$201,401
NO/NO2/NOX Analyzer - Teledyne Model T200 Expendibles Kit for NO/NO2/Nox Analyzer:one Year Operation Calibration Gas for NO/NO2/Nox, Solenoid Valves and Regulator	$18,320	$18,320	$219,721

Ammonia Analyzer - Teledyne T201 Expendibles Kit for Ammonia Analyzer: One Year Operation Calibration Gas for Ammonia Analyzer, Solenoid Valves and Regulator	$30,120	$30,120	$249,841
CO Analyzer - Teledyne Model T300 Expendibles Kit for CO Analyzer: One Year Operation Calibration Gas for CO Analyzer, Solenoid Valves and Regulator	$18,030	$18,030	$267,871
PM10 & PM2.5 Mass Analyzer - Teledyne T640x Leak Check Flow Adapter Kit, Installation Hardware, 4 DFU Filters	$44,631	$44,631	$312,502
TEI 55i Methane/Non-Methane Hydrocarbon Analyzer Expendibles Kit for CH4/NMOCAnalyzer: One Year Operation Compressed Gases for M/NMHC Analyzer: One Year Operation Auto Cylinder Change Over Regulators for M/NMHC Analyzer (2) Calibration Gas for M/NMHC Analyzer & Regulator Includes Zero Air Generator - Teledyne Model 701H	$38,650	$38,650	$351,152
Meteorology - Tower, Installation, Wiring. Sensors (WS, WD, AT, RH, BP)	$12,560	$12,560	$363,712
Syft Tracer T0202 PKG	$427,414	$427,414	$427,414
		Total	$791,126

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GGGV M

AECOM
19219 Katy Freeway Suite 100
Houston, TX 77094
aecom.com

January 14, 2025

Jason Meyer
Louisiana Department of Environmental Quality
602 N. Fifth St.
Baton Rouge, LA 70802

via email
Jason.meyers@la.gov

Budgetary Estimate for Air Quality Monitoring Support

Dear Mr. Meyer,

AECOM appreciates the opportunity to submit this budgetary estimate for air quality monitoring support as requested by Mr. Meyers via phone call on January 7, 2025.

Scope of Work (SOW) and Assumptions

AECOM is providing cost information for market survey purposes. AECOM has long term experience providing volatile organic compound (VOC), criteria pollutant, and meteorology monitoring in fenceline and community environments. The budgetary estimates provided here are based on that experience. AECOM understands that currently LDEQ is not looking for a formal proposal to conduct this scope of work, but instead is interested in general costs/approach for the work. As such, please note that pricing in this proposal is provided for LDEQ informational purposes only and is non-binding. The scope covered in the estimates is described below. This estimate is based on 2025 equipment and labor costs.

AECOM Budgetary Estimate

On January 7, 2024, Mr. Meyers communicated to AECOM that the scope of the air monitoring budgetary estimate request included operational costs for criteria pollutants (NO2, SO2, CO, and particulate matter with ozone and Lead excluded), meteorology monitoring (wind speed, wind direction, temperature and pressure), and enhanced VOC monitoring by Selection Ion Flow Tube Mass spectrometry (SIFT-MS). AECOM has provided costs for on going operations only, no capital costs are included.
AECOM has divided the scope into three general tasks, discussed in detail below.

Task 1 Data Validation

AECOM has assumed a project specific Quality Assurance Project Plan (QAPP) would be approved by LDEQ and has not included costs for data quality planning in this task. Further, AECOM has not included costs to develop a database or data acquisition (DAQ) communications between the field site and a database. The cost here covers data validation for all parameters monthly, to be completed by the end of the following month following the procedures outlined in the QAPP. AECOM has not included any administrative costs for this task.

Task 2 Field Site Support

Scope covered in this task includes weekly routine site visits for maintenance and upkeep of the system. Activities include gas cylinder and site maintenance, filter swapping for particulate instrumentation, for example. AECOM has included support for

maintenance of the criteria, meteorology, and SIFT-MS systems. An enhanced VOC monitoring system may include an annual certification and maintenance cost, which has been included herein. AECOM has included costs for a quarterly performance audit of each measurement system. Both labor and material costs are included in the summary table.

Task 3 Bi-yearly Summary Report

ACOM has included support to develop two reports per year to send to the LDEQ. The scope of the reports includes all quality control results for every monitoring system and a summary of relevant routine results. For example, summaries of validated measurements above relevant air quality standards.

Activity	Labor	ODC	Estimated Cost
Routine Data Validation	$82,000	$0	$82,000
Field Site Support	$86,000	$72,000	$158,000
Bi-yearly Summary Report	$10,000	$0	$10,000
Total Budgetary Estimate for Community Air Monitor Operation and Maintenance Support			**$250,000**

AECOM appreciates the opportunity to support the Louisiana Department of Environmental Quality on this project. If you have questions or require additional information regarding this proposal, please contact Bradley Flowers.

Sincerely,

Bradley Flowers, Ph. D.
Principal Scientist and Program Manager
AECOM
T: (303)517-3306
E: Bradley.flowers@aecom.com

Laura Faletto
Associate Vice President
AECOM

cc: Michelle Samoska, Matt Kuryla

From: Melancon, Douglas Boyd
To: Jason Meyers
Subject: FW: GCGV Community Monitors
Date: Wednesday, January 15, 2025 11:44:33 AM
Attachments: image001.png
image002.png

Douglas Melancon
Global Operations & Sustainability
State Env & Reg Advisor

ExxonMobil Baton Rouge Complex
CNO 371
4999 Scenic Highway
Baton Rouge, LA 70805
225-481-1516 Tel
225-907-7337 Mobile
douglas.b.melancon@exxonmobil.com

From: Rodriguez, Sandy L <sandy.rodriguez@exxonmobil.com>
Sent: Tuesday, January 7, 2025 4:08 PM
To: jason.myers@la.gov
Cc: Melancon, Douglas Boyd <douglas.b.melancon@exxonmobil.com>; Fontenot, Brady J <brady.j.fontenot@exxonmobil.com>
Subject: GCGV Community Monitors

Hi Jason,

Based on our call today, this is a follow up breaking down the cost of our Ethylene Oxide monitoring. Please let me know if there was anything else you are specifically interested in.

Our 2 stations take EtO canister samples (TO-15/327) every 6th day and send to a lab in California to be analyzed. This cost includes operation and maintenance of the canister system, lab analysis, and onsite support of system issues and data quality. Annually this costs ~$46,800 per station.
Additionally, we have an SRI EtO analyzer setup solely to read ambient levels, and trigger a 1 hour canister for 'event sampling' if a 20ppb reading is reached. This is the most EPA-backed method we have found for 'real time alerting' of EtO, however the one event that was triggered returned as non-detect because the event was so short term.
Our new AROMA analyzer which reads at 0.01 ppb (canister detection limit is 0.075ppb) annually costs ~$23,300 per station. This has proven to be very consistent and reliable, and we hope EPA will soon acknowledge this as an approved technology.

Thanks and please let me know if you have any questions.

Sandy Rodriguez
Environmental MultiMedia Advisor
Gulf Coast Growth Ventures
4589 FM 2986
Gregory, Texas 78359
361.677.2351 Mobile

RECORD

As was determined by the SCR requirements, a taskforce meeting was conducted on February 11, 2025 to vote on the acceptance of the SCR findings in report. A sufficient number of taskforce members were present to constitute a quorum for the vote.

The report was distributed to the task force members in advanced for their review. It was distributed on February 4, 2025 with comments to be submitted by February 6th, 2025. Phone calls were completed to task force member on February 10, 2025 as a reminder of the upcoming meeting on the following day. It was noted during these calls, that Representative Knox and Representative Coates did not receive the report during the distribution on February 4th. After correct email addresses were obtained, an email was provided to the two representatives with the report on February 10th.

During the task force meeting, a vote was completed with an agreement by all taskforce members that the report did meet the requirements as outlined in SCR 30. However, due to the short review period for Representatives Knox and Coates, addendums would be allowed to be added to the report document.

An addendum is an addition to a finished document that does not modify substantial terms.

As received by email by Task force Chair and members

Greetings Secretary Giacometto et al,

I hope this message finds you well and members of the Task Force well.

First and foremost, I want to extend my sincere appreciation for your leadership as Chair of the Community Air Monitoring and Notification Task Force. Your efforts in guiding this important work, as mandated by SCR 30—authored by former State Senator Cleo Fields, with my support as co-author—have been invaluable. I also want to commend your team at LDEQ for their diligence in researching and compiling a comprehensive report on the implementation of real-time community monitoring and notification systems for emission sources. Overall, I think all would agree that they did a good job!

To that end, the Task Force voted unanimously to approve the final report with the provision that amendments from Representative Kim Coates and me be incorporated, as we only received the final report for review on yesterday. In line with that decision, I am submitting my proposed amendments below for inclusion in the final version. I kindly request that the amended final report be provided for final review prior to submission on the Saturday, February 15, 2025, deadline.

Amendments are as follow:

1. Cost Analysis (Page 14)
Page 14, second paragraph, first sentence after “University.” please Insert:
“While all 476 Title V facilities are included, as mandated by SCR 30, the author’s expressed intent is to prioritize the top Title V facilities based on total emissions of carcinogens, the toxicity of emissions, and their proximity to populations.”

2. LDEQ Cost Estimates (Page 17)
Second paragraph, in the first sentence, after “million” insert verbiage: “, attachment G”
Insert a new page titled, “Attachment G: LDEQ Cost Estimates” after Attachment F: section
In the new section, Attachment G: for consistency, please provide a financial breakdown to support and explain how arrived for the need to hire 48 additional LDEQ employees at a cost of $8.2 million; with explanation for why noy mitigating that 48 estimate by utilizing existing LDEQ personnel.

Also, please include the copy of the referenced fiscal note from Senate Bill 35 (2023), which states in part: “The Legislative Fiscal Office (LFO) cannot corroborate the overhead rate or needs by DEQ.” The fiscal note concludes with: “To the degree that overhead need is less than the $2.9M estimated, costs would decrease proportionately.” I have attached a copy of the referenced fiscal note for members’ review.

3. Recommendations (Page 22)
Second paragraph, Item #1. Prioritization of Monitoring Sites.
In the first sentence, please insert “carcinogen” after “total” and before “emissions.”

I sincerely appreciate the Task Force's unanimous vote to allow Representative Coates and me to include our amendments into the final report and look forward to reviewing the final version. Please confirm receipt of these revisions at your earliest convenience. And again, thanks to everyone for taking the time out of your busy schedule to serve on the very important task force.

Lastly, I apologize for any typos as I was rushing because of the approaching deadline. Please feel free to contact me anytime.

Respectfully,

Yours in Service.

Alonzo L. Knox
State Representative ~ District 93
Louisiana House of Representatives
1239 Baronne St.
New Orleans, LA 70113
Phone: (504) 568-3101
Fax: (504) 568-3104
E-mail: hse093@legis.la.gov

As received by email by Task force Chair and members

Good afternoon Secretary Giacometto and Task Force members,

Madam Secretary, I also appreciate you and your department for researching and compiling this report. Thank you for dedicating your department's time and efforts to an important topic.

I also value the opportunity to collaborate with everyone on this task force. I thank Representative Knox co-authoring SCR 30 and asking for the additional information be provided since we were both given the report only within 24 hours of the meeting yesterday.

My comments to be to added as an amendment is to be provided a breakdown on the job description of each of the 48 new employees. What will each employee be required to do for the implementation of this program? How many monitors will each employee be assigned to from the list in the report? How much time would be required for each employee to spend on each monitor?

Since the air permits of each facility on the list are public information, I request the list be listed in order of the volume of toxins in their air permits.

Again , thank you for allowing me to share my questions for the report.

Respectfully,
Kim Coates

LEGISLATIVE FISCAL OFFICE
Fiscal Note

Fiscal Note On: **SB 35** SLS 23RS 104
Bill Text Version: **ENGROSSED**
Opp. Chamb. Action:
Proposed Amd.:
Sub. Bill For.:

Date: April 27, 2023 7:51 AM
Author: FIELDS
Dept./Agy.: Department of Environmental Quality
Subject: Air Quality Monitoring - Right-to-Know Law
Analyst: Kimberly Fruge

ENVIRONMENTAL QUALITY EG INCREASE SG EX See Note
Requires air monitoring systems in certain permitted facilities. (8/1/23)

Proposed law requires that on or before July 1, 2024, the owner or operator of certain facilities shall continuously operate an air monitoring system. The cost of installation and monitoring shall be at the expense of the owner of the facility and not the Department of Environmental Quality. The air monitoring system shall measure and record air pollutants concentrations and detect when the air fails to meet quality standards or presents a public health threat. Air quality data shall be collected, processed, and transmitted without delay and with dissemination to the public. Facilities are required to maintain records and report any malfunctions or maintenance to the department twice a year, beginning January 1, 2025.

EXPENDITURES	**2023-24**	**2024-25**	**2025-26**	**2026-27**	**2027-28**	**5 -YEAR TOTAL**
State Gen. Fd.	$0	$0	$0	$0	$0	**$0**
Agy. Self-Gen.	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
Ded./Other	$0	$0	$0	$0	$0	**$0**
Federal Funds	$0	$0	$0	$0	$0	**$0**
Local Funds	$0	$0	$0	$0	$0	**$0**
Annual Total						

REVENUES	**2023-24**	**2024-25**	**2025-26**	**2026-27**	**2027-28**	**5 -YEAR TOTAL**
State Gen. Fd.	$0	$0	$0	$0	$0	**$0**
Agy. Self-Gen.	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
Ded./Other	$0	$0	$0	$0	$0	**$0**
Federal Funds	$0	$0	$0	$0	$0	**$0**
Local Funds	$0	$0	$0	$0	$0	**$0**
Annual Total						

EXPENDITURE EXPLANATION

Proposed law will result in an indeterminable, but significant, SGR expenditure increase of up to $8.2 M in FY 24 for the Department of Environmental Quality (DEQ) due to the increased monitoring requirements. In FY 24, the department will be responsible for visiting each location to determine equipment needs and optimal placement. Starting in FY 25, the department will be responsible for monitoring the data and the semiannual review of each facility. DEQ estimates it will need 48 additional T.O. positions with associated funding to implement proposed law. A breakdown of the costs is outlined in the table below with explanations of these costs on page two.

Breakdown of Total Costs:

	FY 24	**FY 25**	**FY 26**	**FY 27**	**FY 28**
Salaries	$ 4,601,990	$ 4,740,048	$ 4,882,250	$ 5,028,717	$ 5,179,579
Vehicles	$ 560,000	$ 0	$ 0	$ 0	$ 0
Operating Costs	$ 48,000	$ 48,000	$ 48,000	$ 48,000	$ 48,000
Travel	$ 76,000	$ 19,000	$ 19,000	$ 19,000	$ 19,000
Overhead Rate	$ 2,914,900	$ 3,002,347	$ 3,092,417	$ 3,185,189	$ 3,280,745
Total	**$ 8,200,890**	**$ 7,809,395**	**$ 8,041,667**	**$ 8,280,906**	**$ 8,527,324**

The Legislative Fiscal Office (LFO) cannot corroborate the overhead rate or needs detailed by DEQ. The LFO presumes DEQ will promulgate rules through the Administrative Procedure Act (APA) to implement air quality monitoring under this measure and will establish an appropriate fee rate structure to provide for necessary and appropriate monitoring operations. Appropriate rates cannot be determined until implementation guidelines are developed and promulgated through the APA process. To the degree that the overhead need is less than the $2.9 M estimated, costs would decrease proportionally.

The proposed law stipulates any monitoring expense will be the responsibility of the facility owner and not of the department. The LFO presumes expenditures incurred by DEQ will be mitigated by fees authorized under this measure (see Revenue Explanation). *Continued on Page 2*

REVENUE EXPLANATION

There will be an indeterminable increase in SGR revenues in the Environmental Trust Dedicated Account due to the collection associated with the requirements in this measure; the charges would likely vary depending on the size and scope of each facility. DEQ estimates the average financial burden in FY 24 on each facility would be $17,945 ($8,200,890/457 facilities). Proposed law indicates that the burden of cost will be on the facility and not the department but is unclear on how department fees or recuperation of these costs are determined.

Senate Dual Referral Rules

[x] 13.5.1 >= $100,000 Annual Fiscal Cost {S & H}

[ ] 13.5.2 >= $500,000 Annual Tax or Fee Change {S & H}

House

[ ] 6.8(F)(1) >= $100,000 SGF Fiscal Cost {H & S}

[ ] 6.8(G) >= $500,000 Tax or Fee Increase or a Net Fee Decrease {S}

Evan Brasseaux

Evan Brasseaux
Interim Deputy Fiscal Officer

Date: April 27, 2023 7:51 AM **Author:** FIELDS
Dept./Agy.: Department of Environmental Quality
Subject: Air Quality Monitoring - Right-to-Know Law **Analyst:** Kimberly Fruge

CONTINUED EXPLANATION from page one:

EXPENDITURE EXPLANATION CONTINUED:

T.O. Positions:
Proposed law would likely increase expenditures for additional staff requirements and related costs out of the Environmental Trust Dedicated Fund Account from fees paid by the impacted facilities. DEQ estimates that there would be 457 (481 Part 70 Facilities, 95% of which are major sources) that would be required to install and maintain air monitoring systems. DEQ anticipates it would need, at a minimum, an additional 48 T.O. positions and associated operating equipment and supplies to handle the additional reviewing and monitoring of data for these facilities. DEQ's estimates are based on its current usage of 7 employees responsible for reviewing and managing the data at DEQ's 38 existing air monitoring sites. The table below outlines the additional staffing requirements proposed by DEQ. Estimates are based on midpoint salaries with a 3% annual increase in salary and related benefits.

FY 24 Salary Breakdown:

Position	Midpoint Salary	Related Benefits	Total	Count	Total
Environmental Scientist 2	$ 53,903	$ 27,787	$ 81,690	32	$ 2,614,080
Environmental Scientist Staff DCLA	$ 75,598	$ 38,971	$ 114,569	3	$ 343,707
Environmental Scientist Senior DCLB	$ 92,623	$ 47,747	$ 140,370	3	$ 421,110
Environmental Scientist Supervisor	$ 75,598	$ 38,971	$ 114,569	7	$ 801,983
Environmental Scientist Manager	$ 92,623	$ 47,747	$ 140,370	3	$ 421,110
			Salary/RB Total	**48**	**$ 4,601,990**

With the 3% annual increase, salaries would total $4,740,048 in FY 25, $4,882,250 in FY 26, $5,028,717 in FY 27, and $5,179,579 in FY 28.

Operating Costs:
DEQ estimates additional operating and travel costs associated with the new staff. Specifically, DEQ estimates $48,000 per year in operating costs ($1,000 per employee).

Travel Costs:
For FY 24, the initial visits to facilities will cost $2,000 per employee, excluding supervisors and managers, for a total of $76,000. For FY 25-28, travel costs decrease to $500 per employee for a total of $19,000. In addition, DEQ estimates it will need 16 new vehicles (one vehicle for every two Environmental Scientists) at $35,000 per vehicle, for a total of $560,000 in FY 23.

Overhead Charge:
DEQ further reports assumed total operating expenditures in line with the 63.34% EPA approved overhead rate to provide sufficient operating and support resources needed by the additional personnel, such as rent for new office space, new office equipment, human resources, financial services, legal, etc. DEQ estimates, assuming the overhead rate does not change, the operating expenditures to support 48 T.O. positions will be an additional $2,914,900 in FY 24, $3,002,347 in FY 25, $3,092,417 in FY 26, $3,185,189 in FY 27, and $3,280,745 in FY 27.

Note: This fiscal note does not contemplate the initial costs for facilities to purchase and set up air quality monitors or any annual maintenance associated with the monitors. The department reports that the monitors needed for each facility would vary depending on the types of emissions, complexity, size, and location and thus the price would vary greatly from facility to facility. The department and the LFO assume these costs will be paid directly by facilities and not by any state agency.

Senate Dual Referral Rules
[x] 13.5.1 >= $100,000 Annual Fiscal Cost {S & H}
[ ] 13.5.2 >= $500,000 Annual Tax or Fee Change {S & H}

House
[ ] 6.8(F)(1) >= $100,000 SGF Fiscal Cost {H & S}
[ ] 6.8(G) >= $500,000 Tax or Fee Increase or a Net Fee Decrease {S}

Evan Brasseaux
Evan Brasseaux
Interim Deputy Fiscal Officer