



Puerto Rico Air Monitoring Network Plan

2012
PUERTO RICO
ENVIRONMENTAL QUALITY BOARD

APRIL, 2012

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Acronyms and Abbreviations

AQS: Air Quality System
CFR: Code Federal Register
EPA: Environmental Protection Agency
FEM: Federal Equivalent Method
FRM: Federal Reference Method
NAAQS: National Air Ambient Quality Standards
NAMS: National Air Monitoring Stations
NCore: National Core Multi-pollutant Monitoring Stations
NO₂: Nitrogen Dioxide
O₃: Ozone
OSI: Information System Office
PAMS: Photochemical Assessment Monitoring Stations
PB: Lead
PM₁₀: Particulate Matter
PM_{2.5}: Fine Particulate Matter
ppm: parts per million
PR: Puerto Rico
PREQB: Puerto Rico Environmental Quality Board
PREPA: Puerto Rico Power Electrical Authority
QAMP: Quality Assurance Monitoring Plan
QAPP: Quality Assurance Project Plan
RCPA: Regulation for the Control of Atmospheric Pollution of Puerto Rico
SLAMS: State and Local Air Monitoring Stations
SO₂: Sulfur Dioxide
SO₄: Sulfate
SPM: Special Purpose Monitor
TEOM: Tapered Element Oscillating Microbalance
TSP: Total Suspended Particulate

1.0 INTRODUCTION

The Puerto Rico Environmental Quality Board (PREQB) develops an annual ambient air monitoring network plan which is a review of the ambient air monitoring network each year as required by Title 40 of the Code of Federal Regulation (CFR), Part 58. This Air Monitoring Network Plan meets the requirements of 40 CFR 58.10(a) (1). The purpose of this plan is to provide for the establishment and maintenance of an air quality monitoring system in Puerto Rico that consists of a network of National Air Monitoring Stations (NAMS), State and Local Air Monitoring Stations (SLAMS) and Special Purpose Monitoring (SPM) sites that include federal reference method (FRM) monitors.

The review finds the state's ambient air quality concentrations are demonstrating attainment with EPA's National Ambient Air Quality Standards (NAAQS). Modifications to the state's ambient air monitoring network are being proposed to adjust the sampling sites to meet the changing needs of Puerto Rico.

A complete description of each station is on file at the Air Monitoring Area and is available to review upon request.

1.1 COMMENTS ON PUERTO RICO AIR MONITORING NETWORK PLAN

The annual plan is published in the PREQB's website to provide public review and comments so adjustments can be made to meet the needs of the general public before the annual plan is finalized. This Monitoring Network Plan was available for public inspection for 30 days until May 30, 2012. Comments will be reviewed to determine if changes or modifications to the plan are necessary.

1.2 CURRENT PUERTO RICO AIR MONITORING NETWORK

The following sections describe the SLAMS, and SPM sites in Puerto Rico's current air monitoring network and identifies the location (address), the objective, and the spatial scale represented by each site. The location identified is the actual address where each monitoring site is located. The Air Quality System (AQS) number is the number that identifies the site by state, county, and location. Also, used for internal reasons, the EQB number is in accordance with the following parameters:

- ✓ A station may be designated as a State and Local Air Monitoring Station (SLAMS), or as a Special Purpose Monitor (SPM).
- ✓ The spatial scale represented is described in terms of the physical dimensions of the air parcel surrounding an air monitoring station throughout which pollutant concentrations are reasonably homogeneous. The scales used for Puerto Rico's network are:

- Micro: Several meters to about 100 meters
 - Middle: About 100 to 500 meters
 - Neighborhood: About 500 meters to 4 kilometers
 - Urban: Overall citywide conditions, usually about 4 to 50 kilometers requires more than one station to define.
- ✓ The monitoring objectives include: population exposure (Population), source impact (Source), highest expected concentration (High) or background station (Background).

1.3 METROPOLITAN STATISTICAL AREAS (MSA) AND CORE BASED STATISTICAL AREAS CBSA

To review the PR Monitoring Network, PREQB uses the statistical definitions provided by the Office of Management and Budget and the Census Bureau and others criteria such as geography, climatologic conditions, industrial distribution to making decisions concerning locations and distributions of the air monitoring stations among metropolitan areas. Understanding these conditions and natural forces is one of the keys to make successful decisions in order to establish monitoring programs that benefit the air quality and public health on each individual metropolitan area.

Core-based statistical area (CBSA) - Defined by the U.S. Office of Management and Budget, as a statistical geographic entity consisting of the county or counties associated with at least one urbanized area/urban cluster of at least 10,000 population, plus adjacent counties having a high degree of social and economic integration.

Metropolitan Statistical Area (MSA) - A Core-based statistical area (CBSA) associated with at least one urbanized area of 50,000 population or greater. The central county plus adjacent counties with a high degree of integration comprise the area.

1.4 MONITORING DATA QUALITY ASSURANCE

The Quality Assurance Management Plan (QAMP) was prepared by the Puerto Rico Environmental Quality Board and approved by EPA Region II. The air monitoring network meets the criteria identified in the QAMP.

The Quality Assurance Project Plan (QAPP) is under revision. The QAPP describes in greater detail the monitoring effort and quality assurance procedures that the data must meet before it is considered as quality assured and acceptable for submittal to the public and EPA.

The Standard Operating Procedure (SOP) manuals have been prepared by the Air Quality Area. It identifies the steps, procedures and criteria that must be met in operating of the monitoring network and in the validation of the air quality data.

1.5 MONITORING SITE DISCUSSION

The following pages discuss each monitoring site, the objective of the monitoring site, and if that objective is being met. The instruments used at each site are also identified. Monitoring for the criteria pollutants identified by EPA is performed using EPA reference or equivalent samplers or analyzers according to the list dated February 1, 2011. In all cases, the instruments used in the PREQB monitoring network are EPA reference or equivalent instruments. The instruments used to measure the criteria pollutants comply with 40 CFR Part 58, Appendix C.

1.6 NETWORK MODIFICATION PROCESS

The Puerto Rico monitoring network is reviewed annually to verify that the objectives of the network are met according with the last review of the NAAQS. The most recent emissions inventories (2010) for each pollutant are reviewed along with population data and ambient data gathered in the area. When it is available, the current computer air pollution dispersion modeling is also reviewed. Based on that information, Puerto Rico may identify the need for an additional monitoring station or the need to relocate a station to better meet the objectives of each site. Puerto Rico may also identify sites that are no longer needed for the monitoring needs of the State. If a change is needed in the monitoring network, a Network Modification Form is submitted to EPA Region II prior to or as part of installing, modifying, or removing a monitor.

1.7 REVIEW OF NETWORK MODIFICATIONS IN 2011-12

With increasing monitoring needs and fiscal constraints, EQB determined that it is critical to verify that the monitoring network is operating as efficiently as possible. To meet that goal each station is evaluated to determine if the station addresses a critical need without duplicating existing information. To do that, the following criterion is used.

1. Ensure that the air monitoring network meets the requirements of 40 CFR 58.
2. Identify the monitoring sites that are required to evaluate compliance with the NAAQS and provide public notification of air quality conditions.
3. Provide the technical information needed to support SIP development, including monitoring data for modeling and control strategy selection.
4. Meet the available budget allocations by consolidating monitoring equipment to selected sites and removing monitoring stations that are collecting redundant or immaterial data.

As a result of this review, some modifications to the monitoring network may need to occur.

The EQB staff have met to consider how to collect the air monitoring data needed to meet the goals and objectives of EQB and implement the new EPA monitoring regulations while, at the same time, receiving substantially reduced federal EPA funding for the monitoring program. A number of primary objectives were identified and served as the basis for a major realignment of PR's monitoring network. Those objectives are:

- Provide timely air quality data to the public to support and enhance EQB's public notification process whenever unhealthy air quality conditions are forecast or already exist. This notification allows the public to take the appropriate precautions to protect their health while providing them and local industry the opportunity to reduce their emissions and their impact on air pollution.
- Collect air pollution data to evaluate areas against the NAAQS new regulations.

2.0 PUERTO RICO AIR MONITORING NETWORK

2.1 PM_{2.5} Air-Monitoring Network

PM_{2.5} FRM

The PREQB operates ten (10) PM_{2.5} FRM sites in the air-monitoring network. All of the sites operate on a 1-in-3 day sample schedule. Two sites, Guaynabo and Baldorioty Ave. in San Juan, operate collocated PM_{2.5} FRM samplers on a 1-in-6 day sample schedule. Three of these sites were in temporary shutdown. During the 2011, EQB re-start these sites. The details of these sites are included in Section 5.0 Site Description.

Continuous PM_{2.5}

The PREQB operates three (3) continuous PM_{2.5} sites in the air-monitoring network. All continuous PM_{2.5} samplers are operated year-round and the measurements are sent to the EPA AQS on an hourly basis. All continuous PM_{2.5} samplers have TEOM 1400 AB. All the sites of PM_{2.5} continuous will be for AQI purposes.

Changes proposed to Continuous PM_{2.5}

For the 2012 EQB propose the following changes:

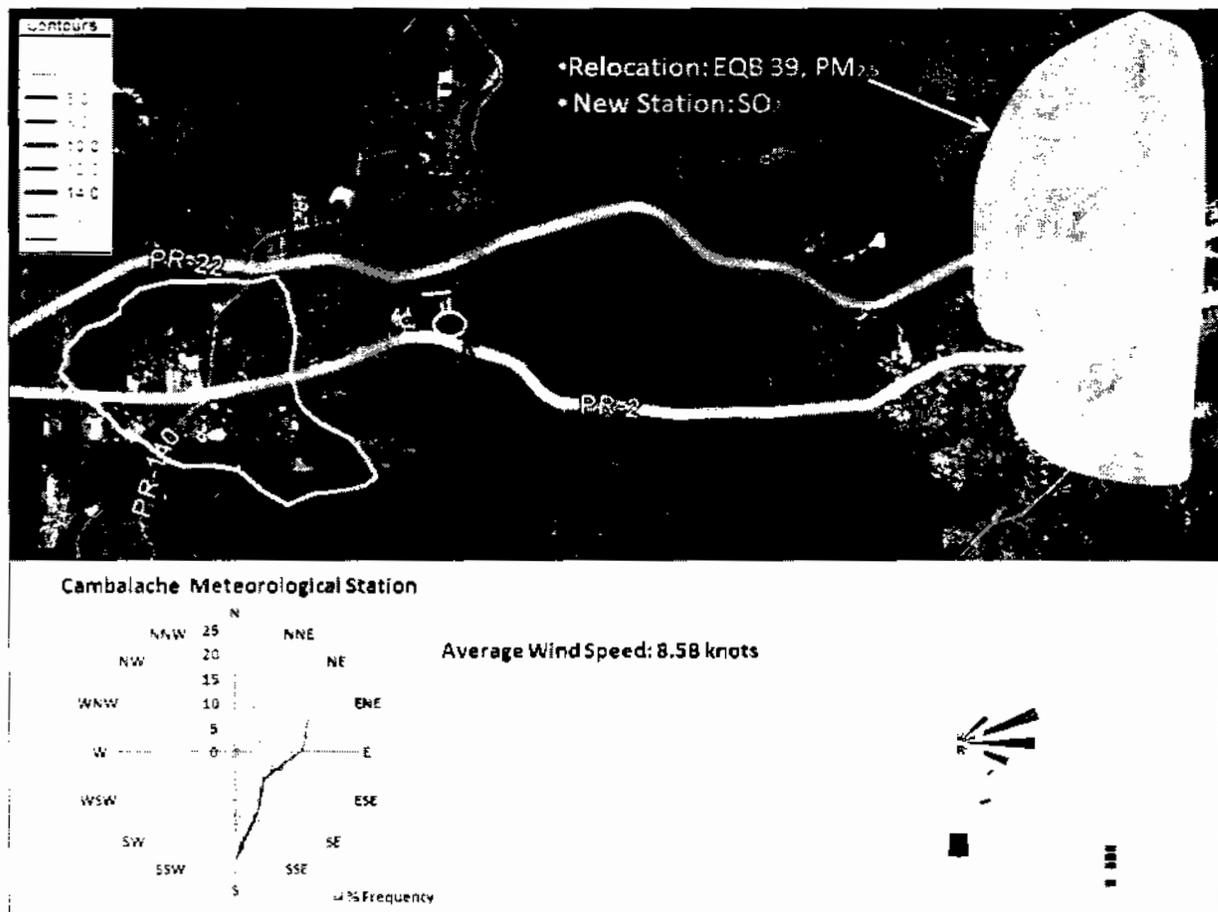
1. The monitor deployed at Barceloneta will be relocated to a new site at Manatí according with the PR Air Monitoring Network Plan 2011.
2. Add one new monitor in Ponce near CEMEX.

The details of these sites and changes are included in Section 5.0 Site Description.

Manatí

The new site at Manatí will be established near the BASF industry. To determine the location, EQB uses the population¹ and PM_{2.5} emissions in the area. See Figure #1.

Figure #1: Manatí

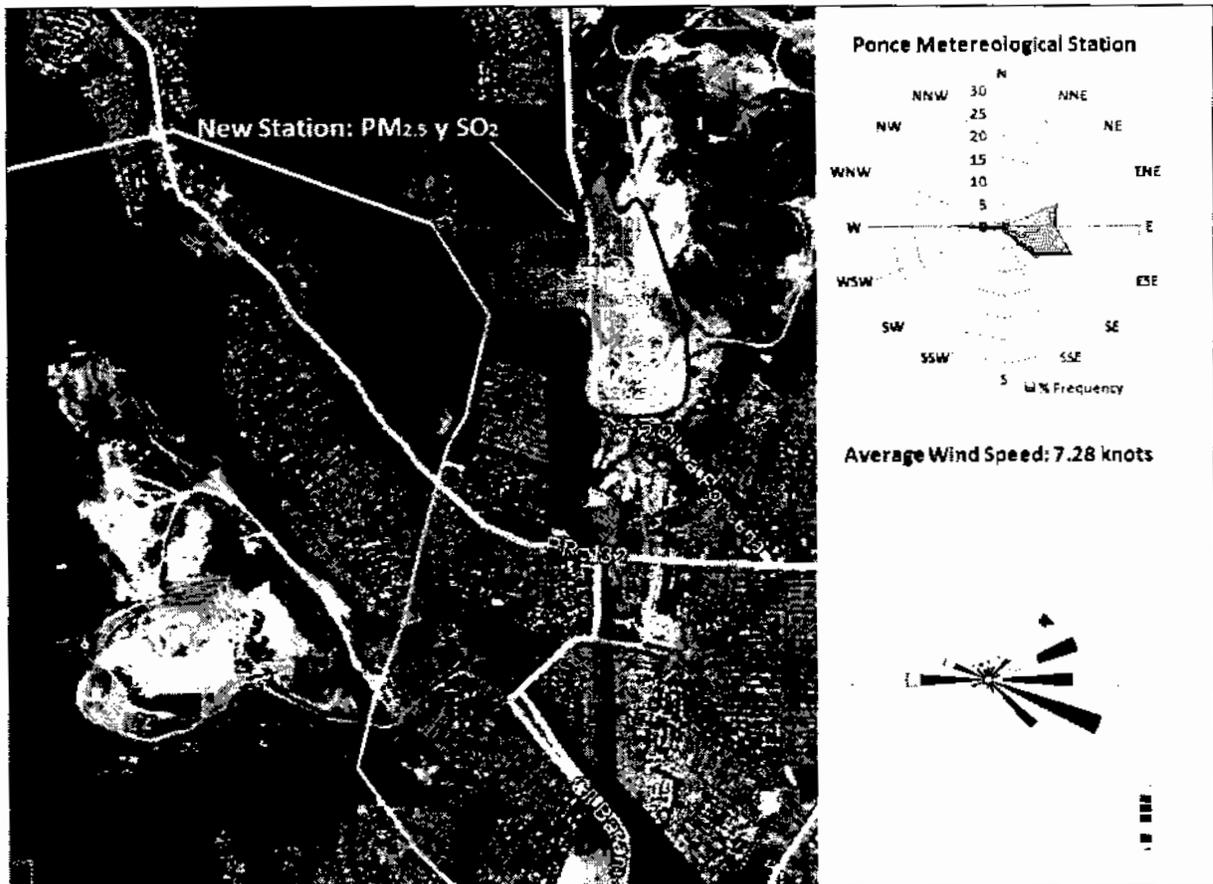


Ponce

The new site in Ponce will be located near the CEMEX industry area. To determine the location, EQB uses the population² and the PM_{2.5} emissions in the area. See Figure #2.

¹ Population 582,153 according with the Census 2000 and Total PM_{2.5} emission 62.47 tons/yr, *PR Emissions Inventory 2009*

Figure #2: Ponce



2.2 PM₁₀ Air-Monitoring Network

PM₁₀ FRM

The PREQB operates five (5) PM₁₀ FRM sites in the air-monitoring network. Two of the sites, Fajardo and Guaynabo are operated every day. Three sites, USGS Office in Guaynabo, Guayama and Ponce are operated every three days (1-in-3 day) sample schedule. Two sites, Guayama and AEE Substation in Guaynabo, operate collocated PM₁₀ FRM samplers on a 1-in-6 day sample schedule. The details of these sites are included in Section 5.0 Site Description.

Continuous PM₁₀

² Population 517,012 according with the Census 2000 and Total PM_{2.5} emission 987.97 tons/yr, PR Emissions Inventory 2009

The PREQB operates two (2) continuous PM₁₀ site in the air-monitoring network. The continuous PM₁₀ sampler is operated year-round and the measurements are sent to the EPA AQS website and used for AQI purposes on an hourly basis. One site is deployed at Las Vegas in Cataño (72-033-0004) and the second site is located at Ponce (72-113-0004).

2.3 PM_{2.5} Speciation Network

PM_{2.5} chemical speciation measurements are being obtained at one site in the PREQB air-monitoring network. The site will be located at the NCore site as was suggested by EPA. It will be operated on the same 1-in-6 day sample schedule and provides 24-hour integrated filter-base measurements.

The PM_{2.5} speciation site is temporary shutdown. The principal objective of the site is to determine the contribution of the exceptional events in the PM data of Puerto Rico. EQB is waiting for the EPA HQ decision to establish the monitor.

2.4 Ozone Air-Monitoring Network

The PREQB operates two ozone sites in the air-monitoring network. One ozone air-monitoring site is located at Cataño (72-033-0008) and the other site is located at Juncos municipality (72-077-0001). All ozone samplers are operated year-round and the measurements are sent to the EPA AQS on an hourly basis. The ozone sites are classified as SLAMS and use FEM monitors. Details of the sites location are included in Section 5.0 Site Description.

2.5 NO₂ Air-Monitoring Network

The existing nitrogen dioxide (NO₂) monitoring stations were installed at their current locations based on a combination of emissions inventories and population centers. The oxides of nitrogen (NO_x) are important precursors in the secondary formation of particulate matter and ozone. These pollutants tend to be more regional in nature, rather than occurring directly downwind of major sources of NO_x. For this reason, NO₂ monitoring stations have been collocated (QA) to better understand and model the formation of these pollutants.

The PREQB operates two (2) nitrogen oxide (NO₂) sites in the air-monitoring network. The NO₂ samplers are operated year-round and the measurements are sent to the EPA AQS on an hourly basis. The SLAM5 NO₂ sites are used as a FRM. The sites are located at Cataño (72-033-0008) and Salinas (72-123-0002). The NO₂ stations at Cataño re-start on February 9, 2012 and the Salinas site will be start in 2012. The details of these sites are included in Section 5.0 Site Description.

NO₂ Network Changes

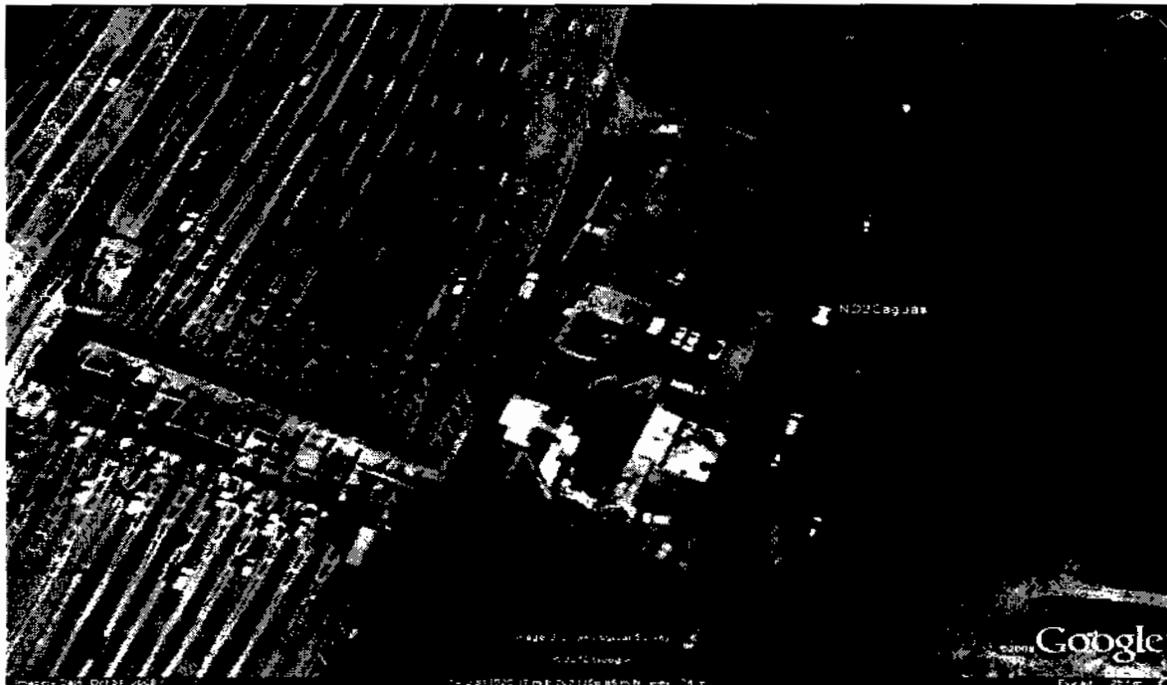
In compliance with the revised new short-term standard, PREQB proposes installed two (2) monitors at locations where maximum NO₂ concentrations are expected to occur, including within 50 meters of major roadways, as well as monitors that will be sited to measure the area-wide NO₂ concentrations that occur more broadly across communities.

The two (2) new sites proposed will be located one (1) in Buchanan Area and the other one in Caguas. The areas show the maximum NO₂ short-term impact according with the results of the NO₂ model.

Figure #3 Buchanan



Figure #4 Caguas



2.6 CO Air-Monitoring Network

The PREQB operates three (3) carbon monoxide (CO) sites in the air-monitoring network. All CO samplers are operated year-round and the measurements are sent to the EPA AQS on an hourly basis. The SLAMS CO sites use FRM monitors. One site is located at San Juan, 72-127-0003 Baldorioty De Castro Ave., one site at 72-021-0006 at Bayamón and the other one is located at Ponce 72-113-0004. The details of these sites are included in Section 5.0 Site Description.

2.7 SO₂ Air-Monitoring Network

The PREQB operates five (5) sulfur dioxide (SO₂) sites in the air-monitoring network. All SO₂ samplers are operated year-round and the measurements are sent to the EPA AQS on an hourly basis. The SLAMS SO₂ sites use FEM monitors. The sites are located two at San Juan-Caguas Area, two at Industrial Area (Guayama – Salinas), and one at Juncos.

EQB will need to make some adjustments to the EQB SO₂ network to ensure that monitors meet today's network design regulations for the new 1-hour. Some of the existing SO₂ monitoring locations may not represent appropriate monitoring locations for the new 1-hour standard monitoring requirements, because the existing locations were selected according with requirements in place at the time for the annual and 24-hour SO₂ standards.

The final network design is intended to be flexible to meet multiple monitoring objectives. Ambient monitoring networks are generally designed to meet three primary monitoring objectives, as listed in 40 CFR Part 58 Appendix D, Section 1, including:

1. Providing air pollution data to the general public in a timely manner.
2. Support compliance with ambient air quality standards and emissions strategy development.
3. Support air pollution research studies (which include health studies and research).

In order to support the air quality management objectives, monitoring networks can have a variety of monitoring sites that can be sited, as necessary, to characterize:

- a. emission sources (*i.e.*, source-oriented monitoring)
- b. the highest concentration in an area
- c. population exposure
- d. general background concentrations levels
- e. regional pollutant among populated areas or wind direction
- f. welfare-based impact

The final network design requires that any SO₂ monitors required in a particular CBSA as determined based on PWEI values, shall satisfy the minimum monitoring requirements if they are sited at locations where they can meet any one or more of the monitoring objectives.

SO₂ Minimum Monitoring Requirements

Table #1

SO ₂ Station Require according with the PWEI ³ Value to Puerto Rico				
Puerto Rico CBSA	Population	SO ₂ Emissions (ton/yr)	PWEI	Stations Required
San Juan – Caguas - Fajardo	2,748,991	53,250	146,383.77	2
Aguadilla – Isabela - San Sebastián	339,523	394	133.77	0
Guayama-Salinas	186,552	32,040	3,730.55	0
Ponce – Yauco - Coamo	490,066	126,070	61,782.62	1
Mayagüez – San Germán-Cabo Rojo	147,270	1,555	401.01	0
Jayuya - Adjuntas	55,019	---	---	---
Culebra - Vieques	11,390	---	---	---
Maricao – Las Marías	18,256	---	---	---
Total	3,954,037	213,309		

³ PWEI: Population Weighted Emission Index

Table #2

National Sulfur Dioxides Emissions in 2005 ⁴	
Source Sector	Total Emissions
Electricity Generation	10,402,756
Fertilizer & Livestock	2,098
Fires	36,879
Fossil Fuel Combustion	2,172,886
Industrial Processes	1,116,099
Non Road Equipment	362,447
On Road Vehicles	145,966
Residential Wood Combustion	5,263
Waste Disposal	29,503
Solvent Use	593

Table #3

SO ₂ Station Require according with PR Contribution to the Total National Emissions Inventory				
Puerto Rico	Population	SO ₂ Emissions (ton/yr)	SO ₂ National Inventory	Stations Required
	3,954,037	213,309	13,691,741 ⁵	1 (0.015)

SO₂ Network Changes

The section below shows the change in the number of monitoring sites and locations of SO₂. EQB proposes maintain the five (5) stations and install one (1) new station according to the minimum required by the regulation, PWEL values and the results of the air dispersion models.

CBSA San Juan - Caguas - Fajardo

EQB proposes maintain the monitors located at San Juan Area; Bayamón (72-021-0006), Cataño (72-033-0004), as part of the PWEL requirements and, maintain the monitor located at Juncos (72-077-0001) as part of the PR Emission Contribution to the Total National Emissions Inventory and in correlation with mathematical air dispersion modeling results.

⁴ National Summary of Sulfur Dioxides Emissions, <http://Www.Epa.Gov/Air/Emissions/SO2.htm>

⁵ Total Emissions: Industrial Processes + Electricity Generation + Fossil Fuel Combustion

The station at Juncos is located inland to determine concentration behavior caused by geographic mountain-valley factors.

CBSA Guayama - Salinas

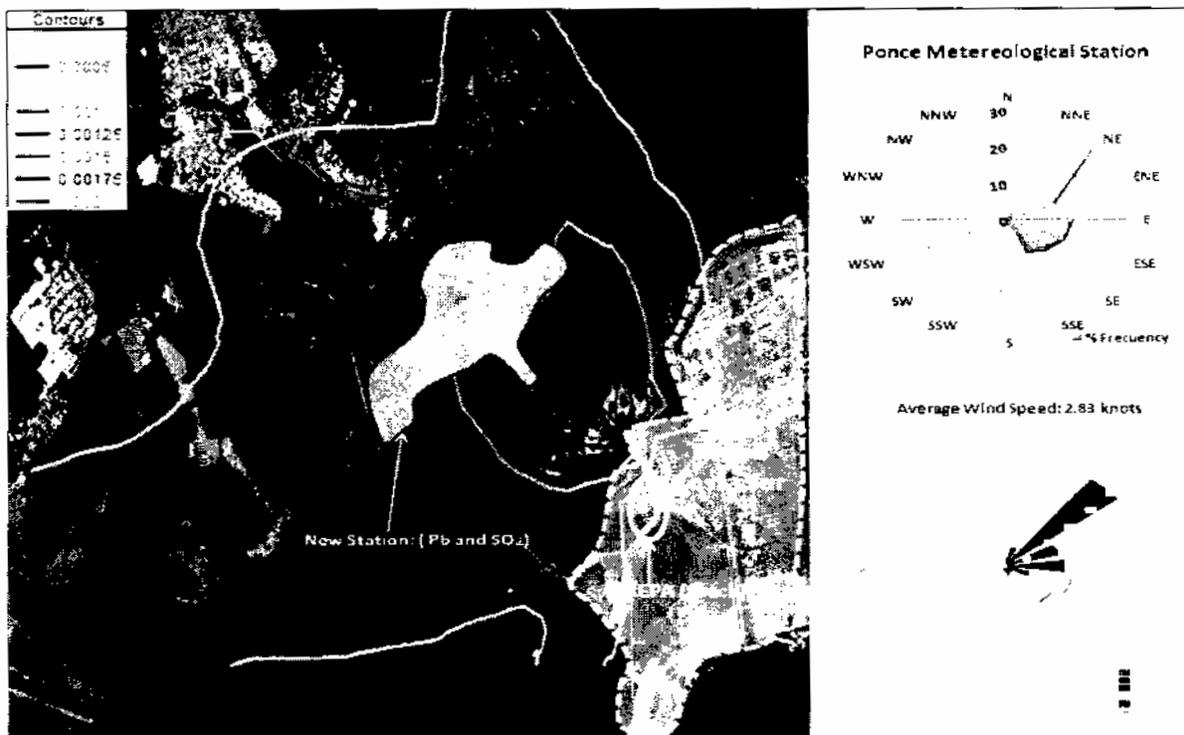
EQB proposes to maintain the EQB station #18 (72-123-0002) according with emissions inventory. This area represents the maximum concentration of the SO₂ emissions in Puerto Rico. Also, this station is located to capture the maximum concentrations according to the results of the mathematical model on 1-hour and 3-hours.

Also, EQB will maintain the station EQB #69 (72-057-0009) according with emissions inventory. Also, this station is located to capture the maximum impact of SO₂ concentration of 1-hour and 3-hours.

CBSA Ponce - Yauco - Coamo

EQB proposes to install one new station located near the PREPA South Coast at Guayanilla as required by the new regulation and the PWEI value shown at Table #1. That area shows the maximum SO₂ impact for 1-hour and 3-hours. See Figure #5

Figure #5: Guayanilla



Also, requested by EPA and part of the Lead Arcibo SIP, PREQB will be establishing a new Pb monitor at Arcibo. The new lead Arcibo monitor proposed will be located on a new site near the industrial area of Battery Recycling. The figure below shows the area where the new monitor will be established. See Figure #7.

Figure #7: Arcibo



2.9 PM Sulfate Air Monitoring Network

The PREQB operates four (4) PM_{10} -Sulfates (SO_4) sites in the air-monitoring network. The particulate sulfate-monitoring network utilizes PM_{10} filter sampling analysis to generate ambient sulfate concentrations.

The SO_4 sites are located at USGS in Guaynabo (72-061-0001), Amelia in Guaynabo (72-061-0005), Fajardo (72-053-0003) and Guayama (72-057-0008). All SO_4 samplers are operated year-round and the measurements are sent to the EPA AQS on a daily basis. Details of the sites locations are included in Section 5.0 Site Description.

2.10 NCore – Air Monitoring Network

NCore, or National Core multi-pollutant monitoring stations, is a new National Monitoring Network required in the October 17, 2006 revisions to the Air Monitoring Regulations (40CFR, Part 58). NCore sites are required to measure, at a minimum, $PM_{2.5}$ particle mass

using continuous and integrated/filter-based samplers, speciation $PM_{2.5}$, $PM_{10-2.5}$ particle mass, speciation $PM_{10-2.5}$, O_3 , SO_2 , CO , NO/NO_x , wind speed, wind direction, relative humidity, and ambient temperature. Sampling methods for $PM_{2.5}$, speciation $PM_{2.5}$, O_3 , SO_2 , NO/NO_x are described under the individual pollutant sections throughout this document. Trace level measurements of CO and SO_2 are performed at NCore sites. $PM_{10-2.5}$ or PM_{Coarse} is determined by the difference between collocated PM_{10} and $PM_{2.5}$ FRM samplers.

For Puerto Rico is required to operate at least one NCore site. According with the requirements, PREQB selected the AIRS 72-021-0006 site at Bayamón to establish the NCore.

PREQB is waiting for approval by EPA-HQ office.

3.0 METEOROLOGICAL DATA

By measuring surface wind speed and direction, one can attempt to determine where a pollutant-laden air mass has come from and where it is going. This information is essential any time an attempt is made to determine the cause of high pollution periods.

The wind patterns in the mountainous geography of Puerto Rico can be very difficult to analyze. Because of these complex wind patterns, EQB will establish meteorological stations in the cardinal points: northwest, southeast, and southwest of the Island. The sites to be located are being evaluated by EQB according with their industrial development. Each station must be evaluated separately because of the complex micrometeorology in Puerto Rico.

4.0 EMERGENCY EPISODE MONITORING

One of the responsibilities of EQB is to ensure that the public is protected from air pollution concentrations that will cause immediate damage or impact to their health.

Rule 107 of RCAP establishes emergency response criteria in accordance with Subpart H and Appendix L of 40 CFR 51. Whenever air pollution concentrations meet or exceed the Alert, Warning, or Emergency levels, an emergency episode is determined to exist and actions are taken to reduce the emissions of air pollutants. It is the responsibility of the monitoring section to collect the air pollution data used to determine when an emergency episode occurs. The data collection telemetry system is alarmed and the monitoring staff is alerted whenever the Alert, Warning, or Emergency levels are approached. The Air Quality Area staff has the primary responsibility to notify an emergency episode exists. This is a critical function that is required by State and Federal law.

The PREQB operates two (2) PM_{10} -continuous site in the air-monitoring network. One site is located at Cataño 72-033-0004 and the other is located at Ponce 72-113-0004.

PREQB establish a $PM_{2.5}$ monitor at Cataño at existing site 72-033-0008. Also, propose change the PM_{10} continuous monitor located at Ponce to a $PM_{2.5}$ continuous monitor. The monitors used to AQI are part of the PM_{10} and $PM_{2.5}$ network at Section 2.1 and 2.2.

The details of the sites locations are included in Section 5.0 Site Description.

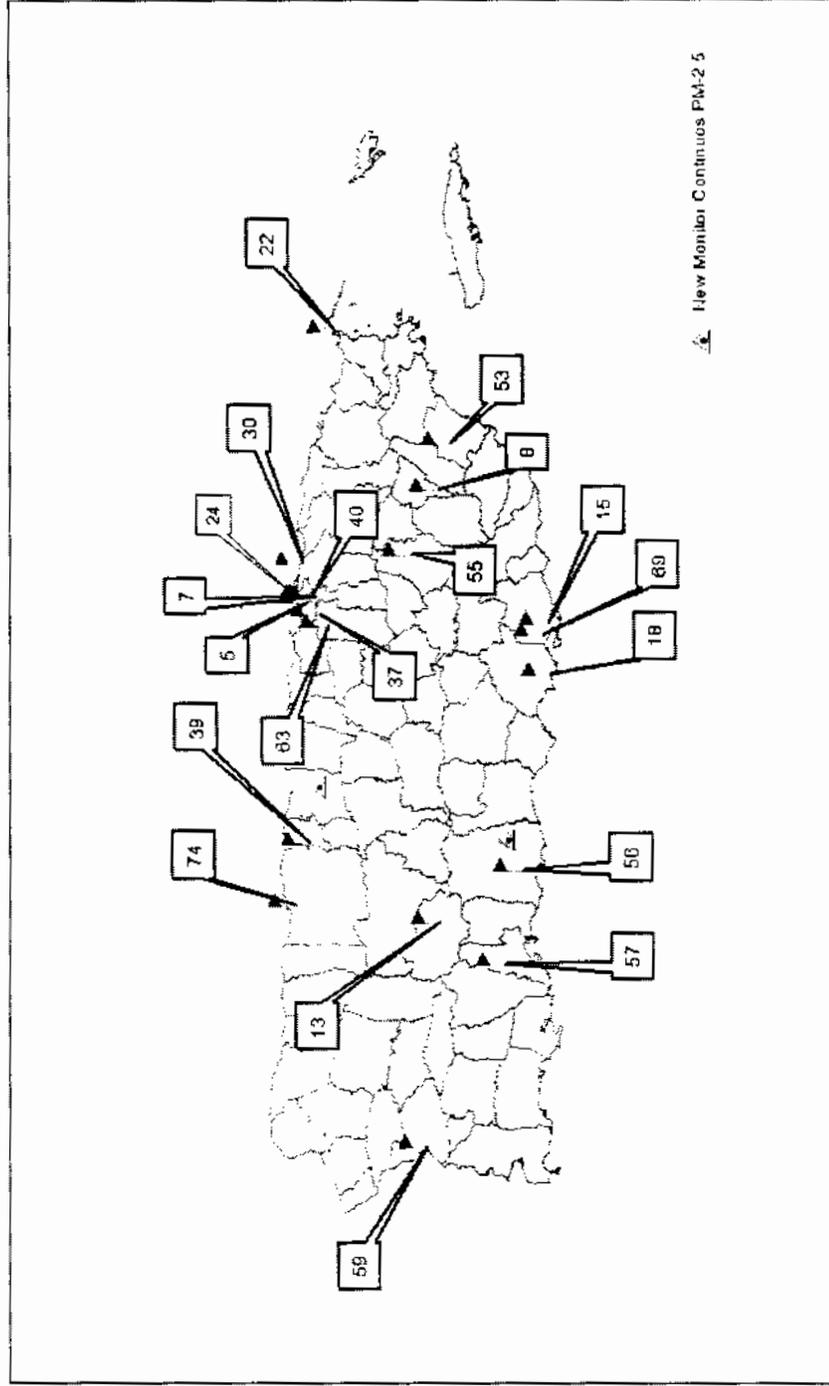
5.0 SITE AND MAP DESCRIPTION

The following tables provide a technical summary of the air monitoring network. They include: the site name, AQS code, the type of analyzer used and frequency of data collection, the source of gases used to calibrate the gaseous monitors, sampling method, analysis method, spatial scale, and the latitude and longitude of each site and plans for the next 18 months.

Also, you see a map with the locations of existing stations and new stations propose.

Puerto Rico Air Monitoring Network Plan 2012

Map: Air Monitoring Network 2012



Puerto Rico Air Monitoring Network Plan | 2012

Site Name	EQB #13
Address	Road #123
City	Adjuntas
AQS Code	72-001-0002
PR County	Adjuntas
MSA/CSA	N/A
Latitude	+18.175378
Longitude	-66.725988
Suitable for Comparison to PM _{2.5} NAAQS?	Yes

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ambient Average Temperature		Electronic	1 in 3	Urban	Extreme Downwind	2005/01/01
Sample Average Barometric Pressure		Barometric Sensor	1 in 3	Urban	Extreme Downwind	2005/01/01
PM _{2.5}	R&P Model 2025	Gravimetric	1 in 3	Urban	Extreme Downwind	2005/01/01

Parameter	Monitor Type
PM _{2.5}	SLAMS

Site Purpose	Reference for Extreme downwind
Plans for the next 18 months	No changes
Other comments	

Site Name	EQB #74
Address	Victor Santoni Cordero Road #123
City	Arecibo
AQS Code	72-013-0001
PR County	Arecibo
MSA/CSA	N/A
Latitude	+18.457039
Longitude	-66.696693
Suitable for Comparison to PM _{2.5} NAAQS?	n/a

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ambient Temperature Average			1 in 6			
Ambient Pressure Average			1 in 6			
Lead TSP	Hi-Vol	Atomic Emission Spectrometry	1 in 6	Micro Scale	Source Oriented	2010/01/01

Parameter	Monitor Type
Lead	SLAMS

Site Purpose	Reference for Extreme downwind
Plans for the next 18 months	No changes
Other comments	Pb collocated

Site Name	EQB #39
Address	Centro Comunal Tiburones
City	Barceloneta
AQS Code	72-017-0003
PR County	Barceloneta
MSA/CSA	Arecibo-Manatí
Latitude	+18.436794
Longitude	-66.580020
Suitable for Comparison to PM _{2.5} NAAQS?	No

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
PM _{2.5} (88501)	PM _{2.5} wins w/correction factor	TEOM	Continuous	Neighborhood	Population Exposure	2000/04/10

Parameter	Monitor Type
PM _{2.5} (88501)	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	To be close and relocated to Manatí
Other comments	

Site Name	EQB # (new)
Address	
City	Manatí
AQS Code	
PR County	Manatí
MSA/CSA	Arecibo-Manatí
Latitude	
Longitude	
Suitable for Comparison to PM _{2.5} NAAQS?	

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
PM _{2.5} (88501)	PM _{2.5} wins w/correction factor	TEOM	Continuous	Neighborhood	Population Exposure	

Parameter	Monitor Type
PM _{2.5} (88501)	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	Add new monitor and new site according with the new NAAQS
Other comments	

Site Name	EQB #37
Address	Regional Jail of Bayamón
City	Bayamón
AQS Code	72-021-0010
PR County	Bayamón
MSA/CSA	San Juan - Bayamón
Latitude	+18.417315
Longitude	-66.150293
Suitable for Comparison to PM _{2.5} NAAQS?	N/A

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Sulfur Dioxide	Instrumental	Pulsed Fluorescent	Continuous	Neighborhood	Population Exposure	2011/03/16
Carbon Monoxide	Instrumental	Non Dispersive Infrared	Continuous	Neighborhood	Population Exposure	2011/03/16
Lead TSP	Hi-Vol	Atomic Emission Spectrometry	1 in 6	Neighborhood	Population Exposure	2011/03/22
Ambient Temperature Average			1 in 6			
Ambient Pressure Average			1 in 6			

Parameter	Monitor Type
Sulfur Dioxide	SLAMS
Carbon Monoxide	SLAMS
Lead TSP	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	The NCore site waiting for HQ approval.
Other comments	The site began in March 16, 2011. As part of NCore will be establish PM _{2.5} speciation monitor

Puerto Rico Air Monitoring Network Plan | 2012

Site Name	EQB #63
Address	Escuela Juan Morell Campos - Villa Rica
City	Bayamón
AQS Code	72-021-0009
PR County	Bayamón
MSA/CSA	San Juan - Bayamón
Latitude	+18.399820
Longitude	-66.171125
Suitable for Comparison to PM _{2.5} NAAQS?	Yes

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ambient Average Temperature		Electronic	1 in 3	Urban	Extreme Downwind	
Sample Average Barometric Pressure		Barometric Sensor	1 in 3	Urban	Extreme Downwind	
PM _{2.5}	R&P Model 2025	Gravimetric	1 in 3	Urban	Extreme Downwind	1999/02/02

Parameter	Monitor Type
PM _{2.5}	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	Monitor re-start 2011/11/02
Other comments	

Site Name	EQB #55
Address	Calle Muñoz Rivera Calle Georgetti
City	Caguas
AQS Code	72-025-0003
PR County	Caguas
MSA/CSA	San Juan
Latitude	+18.233331
Longitude	-66.036474
Suitable for Comparison to PM _{2.5} NAAQS?	No

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
PM _{2.5} (88501)	PM _{2.5} wins w/correction factor	TEOM	Continuous	Neighborhood	Population Exposure	2003/05/02

Parameter	Monitor Type
PM _{2.5} (88501)	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	No changes
Other comments	

Site Name	EQB #40
Address	11 Final St. Las Vegas
City	Cataño
AQS Code	72-033-0004
PR County	Cataño
MSA/CSA	San Juan - Bayamón
Latitude	+18.431208
Longitude	-66.141683
Suitable for Comparison to PM _{2.5} NAAQS?	N/A

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Sulfur Dioxide	Instrumental	Pulsed Fluorescent	Continuous	Neighborhood	Population Exposure	1993/12/07
PM ₁₀	R&P SA246B	Continuous	Urban	Population exposure	TEOM-AQI	2000/07/13

Parameter	Monitor Type
Sulfur Dioxide	SLAMS
PM ₁₀	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	No changes
Other comments	AQI (PM ₁₀)

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Site Name	EQB #5
Address	PR Rd. 165
City	Cataño
AQS Code	72-033-0008
PR County	Cataño
MSA/CSA	San Juan - Bayamón
Latitude	+18.440774
Longitude	-66.12631
Suitable for Comparison to PM _{2.5} NAAQS?	NO

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ozone	Instrumental	Ultra Violet	Continuous	Urban	Population exposure	2004/07/22
PM _{2.5} (88501)	PM _{2.5} wins w/correction factor	TEOM	Continuous	Neighborhood	Population exposure	2004/06/30
Nitrogen Dioxide	Instrumental	Chemiluminescence's	Continuous	Urban	Population exposure	2004/10/21

Parameter	Monitor Type
Ozone	SLAMS
PM _{2.5} (88501)	SLAMS
Nitrogen Dioxide	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	The PM _{2.5} monitor change to SLAMS as AQI. NO ₂ monitor re-start 2012/02/09
Other comments	

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Site Name	EQB #22
Address	Fajardo Lighthouse
City	Fajardo
AQS Code	72-053-0003
PR County	Fajardo
MSA/CSA	Humacao - Fajardo
Latitude	+18.383333
Longitude	-66.619444
Suitable for Comparison to PM _{2.5} NAAQS?	Yes

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ambient Average Temperature		Electronic	1 in 3			
Sample Average Barometric Pressure		Barometric Sensor	1 in 3			
PM _{2.5}	R&P Model 2025	Gravimetric	1 in 3	Neighborhood	Background	1999/04/20
PM ₁₀	Hi-Vol	Gravimetric	1 in 1	Neighborhood	Background	1989/03/05
PM ₁₀ Sulfate	Colorimetric		1 in 6	Neighborhood	Background	1998/01/05

Parameter	Monitor Type
PM _{2.5}	SLAMS
PM ₁₀	SLAMS
PM ₁₀ Sulfate	SLAMS

Site Purpose	Reference and Background
Plans for the next 18 months	No changes
Other comments	

2011 | Puerto Rico Air Monitoring Network Plan

Site Name	EQB #15
Address	Barrio Jobos, Intersection Highway 3 & 707
City	N/A
AQS Code	72-057-0008
PR County	Guayama
MSA/CSA	Guayama
Latitude	+17.957894
Longitude	-66.165016
Suitable for Comparison to PM _{2.5} NAAQS?	Yes

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ambient Average Temperature		Electronic	1 in 3			
Sample Average Barometric Pressure		Barometric Sensor	1 in 3			
PM _{2.5}	R&P Model 2025	Gravimetric	1 in 3	Neighborhood	Population Exposure	1999/01/15
PM ₁₀	Hi-Vol	Gravimetric	1 in 3	Neighborhood	Population Exposure	1988/10/06
PM ₁₀ Sulfate	Hi-Vol	Colorimetric	1 in 6	Neighborhood	Population Exposure	1998/01/05

Parameter	Monitor Type
PM _{2.5}	SLAMS
PM ₁₀	SLAMS
PM ₁₀ Sulfate	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	No changes
Other comments	PM ₁₀ collocated monitor

2011 | Puerto Rico Air Monitoring Network Plan

Site Name	EQB #69
Address	At the south side of the police station
City	Guayama
AQS Code	72-057-0009
PR County	Guayama
MSA/CSA	Guayama
Latitude	+17.967638
Longitude	-66.187471
Suitable for Comparison to PM _{2.5} NAAQS?	N/A

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Sulfur Dioxide	Instrumental	Pulsed Fluorescence	Continuous	Neighborhood	Source Oriented	2001/11/14

Parameter	Monitor Type
Sulfur Dioxide	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	This site is proposed to establish new NO ₂ in 2012
Other comments	

2011 | Puerto Rico Air Monitoring Network Plan

Site Name	EQB #57
Address	Road 377 Bo. Quebrada
City	Guayanilla
AQS Code	72-059-0016
PR County	Guayanilla
MSA/CSA	Ponce
Latitude	+18.045111
Longitude	-66.802253
Suitable for Comparison to PM _{2.5} NAAQS?	Yes

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ambient Average Temperature		Electronic	1 in 3			
Sample Average Barometric Pressure		Barometric Sensor	1 in 3			
PM _{2.5}	R&P Model 2025	Gravimetric	1 in 3	Neighborhood	Population Exposure	1999/01/15

Parameter	Monitor Type
PM _{2.5}	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	Monitor re-start 2011/11/2
Other comments	

2011 | Puerto Rico Air Monitoring Network Plan

Site Name	EQB # (new)
Address	
City	Guayanilla
AQS Code	72-059-0001
PR County	Guayanilla
MSA/CSA	Ponce
Latitude	
Longitude	
Suitable for Comparison to PM _{2.5} NAAQS?	N/A

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Sulfur Dioxide	Instrumental	Pulsed Fluorescent	Continuous	Neighborhood	Source Oriented	
Lead TSP	Hi- Vol	Atomic Absorption	1 in 6	Micro Scale	Population Exposure	2011
Ambient Temperature Average			1 in 6			
Ambient Pressure Average			1 in 6			

Parameter	Monitor Type
Sulfur Dioxide	SLAMS
Lead TSP	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	Site with meteorological monitor
Other comments	Near South Coast PREPA

2011 | Puerto Rico Air Monitoring Network Plan

Site Name	EQB #7
Address	USGS & Water Resources Bldg.
City	Guaynabo
AQS Code	72-061-0001
PR County	Guaynabo
MSA/CSA	San Juan - Bayamón
Latitude	+18.425652
Longitude	-66.115846
Suitable for Comparison to PM _{2.5} NAAQS?	No

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
PM ₁₀	Hi-Vol	Gravimetric	1 in 3	Micro Scale	Highest Concentration	1999/02/28
PM ₁₀ Sulfate	Hi-Vol	Colorimetric	1 in 6	Neighborhood	Population Exposure	1999/02/28

Parameter	Monitor Type
PM ₁₀	SLAMS
PM ₁₀ Sulfate	SLAMS

Site Purpose	Determine Highest Concentration
Plans for the next 18 months	No changes
Other comments	PM ₁₀ Monitor is part of PM ₁₀ SIP for Guaynabo LMP

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Site Name	EQB #24
Address	Electrical Substation
City	Guaynabo
AQS Code	72-061-0005
PR County	Guaynabo
MSA/CSA	San Juan - Bayamón
Latitude	+18.440095
Longitude	-66.114460
Suitable for Comparison to PM _{2.5} NAAQS?	Yes

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ambient Average Temperature		Electronic	1 in 3			
Sample Average Barometric Pressure		Barometric Sensor	1 in 3			
PM _{2.5}	R&P Model 2025	Gravimetric	1 in 3	Neighborhood	Population Exposure	1999/01/15
PM ₁₀	Hi-Vol	Gravimetric	1 in 1	Neighborhood	Population Exposure	1988/01/05
PM ₁₀ Sulfate	Hi-Vol	Colorimetric	1 in 6	Neighborhood	Population Exposure	1998/01/05

Parameter	Monitor Type
PM _{2.5}	SLAMS
PM ₁₀	SLAMS
PM ₁₀ Sulfate	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	No changes
Other comments	PM ₁₀ Monitor is part of PM ₁₀ SIP for Guaynabo LMP, PM _{2.5} collocated monitor, PM ₁₀ collocated monitor

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Site Name	EQB #53
Address	Gladiola & Girasol St. Victor Rincón School, Barrio Junquito
City	Humacao
AQS Code	72-006-9001
PR County	Humacao
MSA/CSA	Fajardo - Humacao
Latitude	+18.153440
Longitude	-65.828617
Suitable for Comparison to PM _{2.5} NAAQS?	Yes

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ambient Average Temperature		Electronic	1 in 3			
Sample Average Barometric Pressure		Barometric Sensor	1 in 3			
PM _{2.5}	R&P Model 2025	Gravimetric	1 in 3	Neighborhood	Population Exposure	2000/02/12

Parameter	Monitor Type
PM _{2.5}	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	Monitor re-start 2011/11/02
Other comments	

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Site Name	EQB #59
Address	Nenadich Street
City	Mayagüez
AQS Code	72-097-0006
PR County	Mayagüez
MSA/CSA	Mayagüez
Latitude	+18.200099
Longitude	-67.145880
Suitable for Comparison to PM _{2.5} NAAQS?	Yes

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ambient Average Temperature		Electronic	1 in 3			
Sample Average Barometric Pressure		Barometric Sensor	1 in 3			
PM _{2.5}	R&P Model 2025	Gravimetric	1 in 3	Neighborhood	Source Oriented	2007/02/21

Parameter	Monitor Type
PM _{2.5}	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	Monitor re-start 2011/06/14
Other comments	

2011 | Puerto Rico Air Monitoring Network Plan

Site Name	EQB #8
Address	Road 183
City	Juncos
AQS Code	72-077-0001
PR County	Juncos
MSA/CSA	Juncos
Latitude	+18.177939
Longitude	-65.915482
Suitable for Comparison to PM _{2.5} NAAQS?	N/A

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Sulfur Dioxide	Instrumental	Pulsed Fluorescent	Continuous	Neighborhood	Population Exposure	2007/10/03
Ozone	Instrumental	Ultra violet	Continuous	Neighborhood	Population Exposure	2007/10/03

Parameter	Monitor Type
Sulfur Dioxide	SLAMS
Ozone	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	No changes
Other comments	Meteorological monitor

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Site Name	EQB #56
Address	Civil Defense Bldg. Urb. San Antonio
City	Ponce
AQS Code	72-113-0004
PR County	Ponce
MSA/CSA	Ponce
Latitude	+18.009558
Longitude	-66.627249
Suitable for Comparison to PM _{2.5} NAAQS?	Yes

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ambient Average Temperature		Electronic	1 in 3			
Sample Average Barometric Pressure		Barometric Sensor	1 in 3			
PM _{2.5}	R&P Model 2025	Gravimetric	1 in 3	Neighborhood	Population Exposure	1999/01/15
PM ₁₀	Hi-Vol	Gravimetric	1 in 3	Neighborhood	High Concentration	1999/01/06
Carbon Monoxide	Instrumental	Non Dispersive Infrared	Continuous	Neighborhood	Population Exposure	2011/10/01
PM ₁₀ continuous	R&P SA246B	Continuous	Continuous	Population exposure	TEOM-AQI	2011/10/05

Parameter	Monitor Type
PM _{2.5}	SLAMS
PM ₁₀	SLAMS
CO	SLAMS
PM ₁₀ -continuous	SLAMS

Site Purpose	Determine High Concentration
Plans for the next 18 months	PM ₁₀ monitor will be change to PM _{2.5} continuous monitor to AQI purposes
Other comments	

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Site Name	New
Address	Near Cemex Industry
City	Ponce
AQS Code	72-113-00045
PR County	Ponce
MSA/CSA	Ponce
Latitude	
Longitude	
Suitable for Comparison to PM _{2.5} NAAQS?	

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Sulfur Dioxide	Instrumental	Pulsed Fluorescent	Continuous	Neighborhood	Highest Concentration	new
PM _{2.5} (88501)	PM _{2.5} wins w/correction factor	TEOM	Continuous	Neighborhood	Highest Concentration	new

Parameter	Monitor Type
Sulfur Dioxide	SLAMS
PM _{2.5} (88501)	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	New
Other comments	

2011 | Puerto Rico Air Monitoring Network Plan

Site Name	EQB #18
Address	Road Las Mareas
City	Salinas
AQS Code	72-123-0002
PR County	Salinas
MSA/CSA	Ponce
Latitude	+17.953006
Longitude	-66.261461
Suitable for Comparison to PM _{2.5} NAAQS?	N/A

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Sulfur Dioxide	Instrumental	Pulsed Fluorescent	Continuous	Neighborhood	Population Oriented	2008/09/24
NO ₂						new
Lead TSP	Hi-Vol	Atomic Emission Spectrometry	1 in 6	Micro Scale	Source Oriented	2011/10/18

Parameter	Monitor Type
Sulfur Dioxide	SLAMS

Site Purpose	Protection for the population
Plans for the next 18 months	Proposed a NO ₂ monitor from 72-123-0001
Other comments	

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Site Name	EQB #30
Address	Baldorioty de Castro Ave.
City	San Juan
AQS Code	72-127-0003
PR County	San Juan
MSA/CSA	San Juan- Bayamón
Latitude	+18.449814
Longitude	-66.052510
Suitable for Comparison to PM _{2.5} NAAQS?	Yes

Parameter	Sampling Method	Analysis Method	Schedule	Spatial Scale	Monitoring Objective	Date Established
Ambient Average Temperature		Electronic	1 in 3			
Sample Average Barometric Pressure		Barometric Sensor	1 in 3			
PM _{2.5}	R&P Model 2025	Gravimetric	1 in 3	Neighborhood	Population Exposure	1999/03/21
Carbon Monoxide	Instrumental	Non Dispersive Infrared	Continuous	Neighborhood	High Concentration	1995/04/01

Parameter	Monitor Type
PM _{2.5}	SLAMS
Carbon Monoxide	SLAMS

Site Purpose	Determine High Concentration and protection of population
Plans for the next 18 months	Not changes
Other comments	PM _{2.5} collocated monitor

Attachment II
Copy of Public Notice

2011 | Puerto Rico Air Monitoring Network Plan

6.0 NETWORK MODIFICATION FORMS

Network modification forms will be prepared for submittal to EPA Region II to implement the network modifications identified in this network plan.

7.0 SUMMARY AND CONCLUSIONS

The monitoring requirements identified by federal regulation are currently met with the existing monitoring network in Puerto Rico. The procedures that are being used and the instruments that are being operated meet the standards that have been established by EPA.

EQB is currently evaluating the monitoring network's ability to support the understanding of ozone and PM_{2.5} formation, which are the State's most significant air pollutants. This has led to recommendations for site consolidation and episode specific intensive studies.

The significant network changes proposed through 2011 include:

- Establish two new TSP lead filter sampling with atomic emission spectrometry analysis to generate ambient lead concentrations at Guayanilla and Arecibo.
- Relocated the PM_{2.5} Speciation Site at NCore site.
- Begin the NCore site at AIRS Number 72-021-0006 at Bayamón.
- Reactive the NO₂ monitor 72-123-0002 located at Salinas's municipality.
- Relocate the PM_{2.5} continuous monitor at Barceloneta to Manatí.
- Establish a new SO₂ site at Guayanilla according with the regulations for the new 1-hour.
- Change the PM₁₀ continuous monitor at Ponce to a PM_{2.5} continuous monitor to be use for AQI.
- Establish a new PM_{2.5} continuous monitor at Ponce near Cemex industry.
- Establish two (2) new NO₂ sites located, one (1) in Buchanan area and (1) in Caguas.

8.0 PUBLIC COMMENTS ON MONITORING PLAN

The public was invited to submit comments or recommendations to the attention of Mrs. Lucía Fernández Fontán, Chief of Data Validation and Air Dispersion Models Division or to the Air Quality Area. The comments received during the public review of the monitoring plan will be evaluated and the plan will be modified if needed.



GOVERNMENT OF PUERTO RICO
OFFICE OF THE GOVERNOR
ENVIRONMENTAL QUALITY BOARD

PUBLIC NOTICE

**INTENTION TO MODIFY THE
*PUERTO RICO AIR MONITORING NETWORK PLAN 2012***

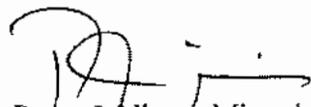
The Puerto Rico Environmental Quality Board (PREQB) in fulfillment with Code 40 of Federal Regulations Parts 53 and 58 have delineated the **Puerto Rico Air Monitoring Network Plan 2012**. This plan must be submitted to the Environmental Protection Agency for its approval.

The State and Local Air Monitoring Network Plan provides information about ambient air quality monitoring sites in Puerto Rico. The network measures the ambient levels of criteria pollutants or those pollutants on which National Ambient Air Quality Standards (NAAQS) have been established. The plan proposes some changes to the actual network according with the new requirements.

The 2012 Puerto Rico Air Monitoring Network Plan will be available for public revision until May 31, 2012, in the Environmental Quality Board web site, www.jca.gobierno.pr, and from Monday through Friday, from 8:00 a.m. until 12:00 and 1:00 p.m. until 4:00 p.m. at the Environmental Quality Board Library, located at the 4th floor of the Environmental Building, Ponce de León Avenue, State Highway 8838 6.3 km, El Cinco in Río Piedras.

Comments should be received following the publication of this notice. The public is invited to submit comments or recommendations to the following email address, aire@jca.gobierno.pr, to the attention of Mrs. Lucía Fernández Fontán, Chief of Data Validation and Air Dispersion Models Division. The comments and recommendations will be considered in the final document that will be submitted to the Environmental Protection Agency.

In San Juan, Puerto Rico, today April 30, 2012.


Pedro J. Nieves Miranda, Esq.
Executive Director



GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

AVISO PÚBLICO

**INTENCIÓN DE EXPEDIR MODIFICACIÓN A
PLAN DE MUESTREO DE AIRE PARA PUERTO RICO 2012**

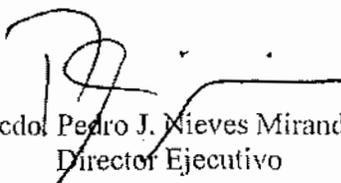
La Junta de Calidad Ambiental en cumplimiento con el Código 40 de Regulaciones Federales (CFR) Parte 53 y 58 presenta su **Plan de Muestreo de Aire para Puerto Rico 2012**. El mismo deberá ser sometido a la Agencia de Protección Ambiental en o antes del 1 de julio de 2012 para su aprobación.

El plan presentado provee información sobre los lugares donde ubican las estaciones de muestreo de aire en Puerto Rico. La red mide los niveles ambientales de los contaminantes criterios o de contaminantes en los cuales se han establecido normas de calidad de aire (NAAQS, en inglés). El plan propone realizar ciertos cambios a la red de muestreo.

El Plan de Muestreo de Aire para Puerto Rico 2012 estará disponible para revisión del público en general hasta el 31 de mayo de 2012, en la página web de la Junta de Calidad Ambiental, www.jca.gobierno.pr, y de lunes a viernes de 8:00 a.m. hasta las 12:00 m. y de 1:00 p.m. a 4:00 p.m. en la Biblioteca de la Junta de Calidad Ambiental localizada en el 4^{to} piso del Edificio Ambiental, Avenida Ponce de León, Carretera Estatal 8838 Km. 6.3 Sector El Cinco en Río Piedras.

Los comentarios deberán ser recibidos a partir de la publicación de este aviso. Se invita al público en general a someter sus recomendaciones a la siguiente dirección electrónica, aire@jca.gobierno.pr a la atención de la Sra. Lucía Fernández Fontán, Jefa de la División de Validación de Datos y Modelaje Matemático. Las mismas serán evaluadas para el documento final que será sometido a la Agencia de Protección Ambiental Federal.

En San Juan, Puerto Rico, hoy 30 de abril de 2012.


Lcdor. Pedro J. Nieves Miranda
Director Ejecutivo