Commonwealth of Pennsylvania Department of Environmental Protection Proposed Ambient Air Monitoring Network Plan - 2011

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Commonwealth of Pennsylvania

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Acronyms

APCA	Air Pollution Control Act
AQS	Air Quality System
BAM	Beta Attenuation Monitor
CAA	Clean Air Act
CBSA	Core based statistical area
CFR	Code of Federal Regulations
CSA	Combined Statistical Area
CO	Carbon Monoxide
COPAMS	Commonwealth of Pennsylvania's Air Monitoring System
PA DEP	Pennsylvania Department of Environmental Protection
EPA	U. S. Environmental Protection Agency
FDMS	Filter Dynamics Measurement System
FEM	Federal Equivalent Method
FID	Flame Ionization Detector
FRM	Federal Reference Method
GC	Gas Chromatograph
IR	Infrared (radiation)
H_2S	Hydrogen Sulfide
MSA	Metropolitan Statistical Area
NAAQS	National Ambient Air Quality Standards
NCore	National Core multipollutant monitoring stations
NO	The gaseous pollutant Nitrogen Oxide
NO_2	The gaseous pollutant Nitrogen Dioxide
NOx	Oxides of Nitrogen
O_3	The gaseous pollutant Ozone
PAMS	Photochemical Assessment Monitoring Station
Pb	Lead
$PM_{2.5}$	Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers
PM_{10}	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
$PM_{10-2.5}$	Particulate matter with an aerodynamic diameter between 10 and 2.5 micrometers
QA	Quality Assurance
SIP	State Implementation Plan
SLAMS	State or Local Air Monitoring Stations
SO_2	The gaseous pollutant Sulfur Dioxide
SPM	Special Purpose Monitor
STN	$PM_{2.5}$ Speciation Trends Network
TSP	Total Suspended Particulate
TTN	EPA's Technology Transfer Network (http://www.epa.gov/ttn/amtic/)
TEOM	Tapered Element Oscillating Microbalance
USC	United States Code
UV	Ultraviolet
VOCs	Volatile Organic Compounds

Introduction

In 1970, Congress enacted the Clean Air Act (CAA) authorizing the U.S. Environmental Protection Agency (EPA) to establish National Ambient Air Quality Standards (NAAQS) for pollutants shown to threaten human health and welfare. Primary NAAQS were promulgated according to criteria designed to protect public health, including an adequate margin of safety to protect sensitive populations such as children and asthmatics. The secondary NAAQS were promulgated according to criteria designed to protect public welfare (decreased visibility, damage to crops, vegetation, and buildings, etc.).

The EPA has promulgated NAAQS for the following criteria pollutants: ozone (O_3), carbon monoxide (CO), sulfur dioxide (SO_2), nitrogen dioxide (NO_2), particulate matter less than 10 microns (PM_{10}), particulate matter less than 2.5 microns ($PM_{2.5}$) and lead (Pb). These are commonly called the "criteria" pollutants. When air quality does not meet the NAAQS in an area, the area is designated by EPA as "nonattainment" in accordance with Section 107 of the CAA, 42 U.S.C. section 7407. Table 1 below lists all of the NAAQS for the criteria pollutants.

Table 1. National Ambient Air Quality Standards

	Primary (Health Related)		**Secondary (Welfare Related)**	
Pollutant	**Type of Average**	**Standard Level Concentration**	**Type of Average**	**Standard Level Concentration**
Carbon Monoxide	8-hour Running (not to be exceeded more than once per year)	9 ppm	No Secondary Standard	
	1-hour (not to be exceeded more than once per year)	35 ppm	No Secondary Standard	
Lead	Maximum Running 3-Month Mean (based on 3-year average)	0.15 $\mu g/m^3$	Same as Primary Standard	
Nitrogen Dioxide	Annual Arithmetic Mean	0.053 ppm	Same as Primary Standard	
	Fourth-Highest Daily Maximum 8-hour Running Mean (based on 3- year average)	0.075 ppm	Same as Primary Standard	
PM_{10}	24-hour (not to be exceeded more than once per year)	150 $\mu g/m^3$	Same as Primary Standard	
$PM_{2.5}$	Annual Arithmetic Mean (based on 3-year average)	15 $\mu g/m^3$	Same as Primary Standard	
$PM_{2.5}$	24-hour (based on 3 year average of 98th percentile)	35 $\mu g/m^3$	Same as Primary Standard	
Sulfur Dioxide	Annual Arithmetic Mean	0.03 ppm	3-hour (block average) (Not to be exceeded more than once per year)	0.50 ppm
	24-hour (daily mean) (not to be exceeded more than once per year)	0.14 ppm		

Requirements for Ambient Air Monitoring Network Descriptions

On October 17, 2006, EPA promulgated a final rule entitled "Revisions to Ambient Air Monitoring Regulations" for criteria pollutants (71 FR 61236), EPA stated in the Preamble that "[t]he purpose of the amendments is to enhance ambient air quality monitoring to better serve current and future air quality." The October 2006 rule also includes provisions concerning state and local agency ambient air monitoring networks. In addition to establishing limited air quality monitoring requirements for thoracic coarse particles in the size range of $PM_{10-2.5}$, EPA also modified the general monitoring network work design requirements for ambient air monitoring networks operated and maintained by state and local agencies, The minimum requirements for the number of monitors for $PM_{2.5}$ and ozone monitoring networks were also amended. Pursuant to 40 CFR sections 58.10(a) and 58.10(b), network plans must include the following for existing and proposed monitoring sites:

- A statement of purpose for each monitor
- Evidence that siting and operation of each monitor meets the requirements of 40 CFR Part 58, Appendices A, C, D, and E where applicable
- The Air Quality System (AQS) site identification number
- The location, including street address and geographical coordinates
- The sampling and analysis method(s) for each measured parameter
- The operating schedules for each monitor
- Any proposals to remove or move a monitoring station within a period of 18 months following plan submittal
- The monitoring objective and spatial scale of representativeness for each monitor
- The identification of any sites that are suitable and sites that are not suitable for comparison against the annual $PM_{2.5}$ NAAQS, as described in section 58.30
- The Metropolitan Statistical Area (MSA), Core Based Statistical Area (CBSA), Combined Statistical Area (CSA) or other area represented by the monitor

Commonwealth of Pennsylvania Air Monitoring Network

Program History

The Pennsylvania Air Pollution Control Act (APCA), enacted originally on January 8, 1960, 35 P.S. Section 4001 et seq., established the framework for the Commonwealth's air pollution control program. The Declaration of Policy set forth in Section 2 of the APCA, 35 P.S. Section 4002, provides:

> *It is hereby declared to be the policy of the Commonwealth of Pennsylvania to protect the air resources of the Commonwealth to the degree necessary for the (i) protection of public health, safety and well-being of its citizens; (ii) prevention of injury to plant and animal life and to property; (iii) protection of the comfort and convenience of the public and the protection of the recreational resources of the Commonwealth; (iv) development, attraction and expansion of industry, commerce and agriculture; and (v) implementation of the provisions of the Clean Air Act in the Commonwealth.*

Section 4 of the APCA empowers the Department of Environmental Protection (formerly the Department of Environmental Resources) to implement the provisions of the Clean Air Act in the Commonwealth. 35 P.S. Section 4004(1).

The Air Pollution Control Act of 1955 was the first federal legislation involving air pollution. This Act provided funds for federal research in air pollution. The Clean Air Act of 1963 was the first federal legislation regarding air pollution *control*. It established a federal program within the U.S. Public Health Service and authorized research into techniques for monitoring and controlling air pollution. In 1967, the Air Quality Act was enacted in order to expand federal government activities. In accordance with this law, enforcement proceedings were initiated in areas subject to interstate air pollution transport. As part of these proceedings, the federal government for the first time conducted extensive ambient monitoring studies and stationary source inspections.[1]

The federal Clean Air Act Amendments of 1970 included provisions which established criteria pollutants authorized EPA to set national ambient air quality standards (NAAQS) and required states to develop state implementation plans (SIPs), which include enforceable requirements and control measures to attain and maintain the standards.

When established in 1971, the Department of Environmental Resources implemented air pollution control programs to protect the air resources of the Commonwealth that, with a great deal of success, have largely addressed major public health and welfare air quality concerns. Significant changes have occurred over the years with the program, notably with the passage of the Clean Air Act Amendments in 1990 as well as the adoption and implementation of $PM_{2.5}$ NAAQS requirements in 1997. Currently, the Pennsylvania Department of Environmental Protection (PA DEP or Department) has an extensive

[1] http://www.epa.gov/air/caa/caa_history.html

monitoring program that not only monitors for the criteria pollutants, but also for air toxics and volatile organic compounds (VOCs).

Ambient Monitoring Network Overview

The Department's overall monitoring strategy requires the operation and maintenance of monitors in areas of the Commonwealth with a high population density and/or high levels of contaminants. The majority of all monitoring activities take place in the "air basins" of the Commonwealth. Air basins are defined in 25 Pa. Code § 121.1 and consist of the following 13 geographical areas:

- Allegheny County Air Basin
- Allentown-Bethlehem-Easton Air Basin
- Erie Air Basin
- Harrisburg Air Basin
- Johnstown Air Basin
- Lancaster Air Basin
- Lower Beaver Valley Air Basin
- Monongahela Valley Air Basin
- Reading Air Basin
- Scranton, Wilkes-Barre Air Basin
- Southeast Pennsylvania Air Basin
- Upper Beaver Valley Air Basin
- York Air Basin

Air monitoring surveillance is conducted in the 13 air basins. The Allegheny County Health Department conducts the majority of the air quality monitoring in the Allegheny County Air Basin. The Philadelphia Department of Public Health, Air Management Services, which is located in the Southeast Pennsylvania Air Basin, conducts air monitoring only for the Philadelphia County portion of the air basin. In addition to the aforementioned 13 air basins, PA DEP conducts surveillance in several non-air basin regions. PA DEP also performs monitoring in Allegheny County at the Carnegie Science Center in Pittsburgh as part of an air quality exhibit.

In 2010, the Department continued to implement a cooperative agreement with Pennsylvania State University's (PSU) Department of Plant Pathology for ozone monitoring in four remote areas - Adams County (near Biglerville), Centre County (near State College, Clearfield County (near Moshannon) and Tioga County (near Gleason). PSU uses ozone data collected from this cooperative monitoring effort to determine the extent of detrimental effects to Pennsylvania's forests and crops, and to assess ozone transport in rural Pennsylvania. This cooperative agreement will expire in June 2011. Prior to the expiration of the agreement, the Department will determine if ozone monitoring at the Biglerville (Adams County) site should be terminated.

PA DEP operates the Commonwealth of Pennsylvania Air Monitoring System (COPAMS) as its air monitoring network. The COPAMS network encompasses both continuous and discrete methods of pollutant sampling. The continuous portion of the COPAMS network is a totally automatic, microprocessor-controlled system that consisted of 49 remote stations throughout the Commonwealth.

Continuous methods employ specialized instruments designed to continuously sample and analyze ambient air in situ. The output of these devices is hourly pollutant concentrations. These concentrations are the raw data used to calculate the various pollutant averages needed for NAAQS comparisons. A centralized computer system operated by the Bureau of Air Quality collects the raw data on an hourly basis, enabling real-time monitoring. PA DEP utilizes continuous methods for the following pollutants: ozone, sulfur dioxide, nitrogen dioxide, oxides of nitrogen, carbon monoxide, hydrogen sulfide, $PM_{2.5}$ and PM_{10}. Various meteorological data from many of the COPAMS stations are measured using continuous methods as well, including wind speed, wind direction (vector averaged and sigma theta), ambient temperature, and solar radiation.

The non-continuous portion of the COPAMS network utilizes discrete sampling methods, with analysis of the sample performed off-site. A discrete method is generally a "manual" method of sampling, most commonly using an air filter to trap air pollutants from ambient air for a defined or "discrete" period of time. The filter is then removed from the collection site and analyzed in a DEP-accredited laboratory. The discrete portion of the COPAMS network includes analysis methods for particulate matter 2.5 microns or less in size ($PM_{2.5}$), particulate matter 10 microns or less in size (PM_{10}), total suspended particulate (TSP), lead, sulfates and nitrates.

The Air Toxics component of the PA DEP Air Monitoring Network utilizes various continuous and discrete sampling methods to monitor for selected toxic air pollutants, including heavy metals such as mercury and chromium; and VOCs such as benzene, trichloroethylene and methylene chloride. Although there are no national concentration standards for these pollutants, PA DEP uses approved EPA analytical methods to determine ambient concentrations.

Description of Local Networks

Allegheny County Health Department

The Allegheny County Health Department (ACHD) operates a network of 19 ambient air monitoring stations across Allegheny County to collect and assess air quality data on concentrations of particulates, sulfur dioxide, ozone, carbon monoxide, nitrogen oxides, ozone, as well as lead. In addition, air toxics and VOCs are also monitored.

Philadelphia Air Management Services

One of the primary objectives of the City of Philadelphia Health Department's Air Management Services (AMS) local air pollution control program is to monitor the city's ambient air for pollutants, which are compared to Federal standards. The City of Philadelphia is served by a network of ten (10) air monitoring sites located throughout Philadelphia County that measure the criteria pollutants: ozone, carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter (PM_{10} and $PM_{2.5}$), and lead. Five of the sites also measure toxics, such as benzene, acetaldehyde, and formaldehyde.

This report does not provide detailed descriptions of the monitoring networks operated by the local air pollution control programs in Philadelphia and Allegheny Counties. Detailed descriptions of local

networks will be submitted to EPA by the Allegheny County Health Department and the City of Philadelphia Department of Public Health Air Management Services, respectively. Contact information for ACHD and AMS is located on page 17 of this plan.

Description of Appendix A

The 2010 Pennsylvania Air Monitoring Network consists of the sites and monitors listed in Appendix A, "Monitoring Sites, Equipment, Maps, and Addresses." This appendix details site information, pollutants monitored at each site, and detailed maps of sampling sites which are broken down by air basin sites and non-air basin sites. Also detailed are the manufacturers, models and analysis methods used in the monitoring network. This network is operated and maintained by the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Air Quality Monitoring.

Description of Appendix B

Appendix B, relating to the "Pennsylvania Monitoring Network Description," provides a detailed description of the existing monitoring network. This appendix includes information related to the location of the site, monitoring parameters at the site, and details about the monitors themselves in order to meet the requirements of 40 CFR Section 58.10 (a) and (b).

The first block, the Site Information Block, contains information identifying the site by both address and latitude and longitude. This block also contains information regarding inclusion of the monitoring site in any metropolitan statistical area.

Following the Site Information Block, there is a series of one or more Sensor Information Block(s), containing information for each monitor at the site. Each sensor block contains the following information:

- Sensor Type – The name of the pollutant measured by the sampler.

- Sensor Network Designation – The name of the designated network:
    - NCore – National Core multipollutant monitoring station. (There are currently no NCore sites planned for PA DEP; Allegheny County Health Department and Philadelphia air Management Services are being funded for one NCore station, each)
    - PAMS – Photochemical Assessment Monitoring Station
    - SLAMS - State or Local Ambient Monitoring Station
    - STN – $PM_{2.5}$ Speciation Trends Network
    - SPM – Special Purpose Monitor

- Sensor Purpose Description– The purpose of the sensor:
    - Population Exposure, such as the Air Quality Index
    - Regulatory compliance with Federal or State regulation
    - Research/Scientific Monitoring
    - Specific location characterization

- Sample Frequency – Specifies how often a sample is taken.
    - Continuous - operates 24/7; applies predominately to gaseous analyzers, although some particulate samplers (TEOM/FDMS and BAMs) operate continuously.
    - Daily – a discrete sample is taken every day; applies to manual method particulate samplers.
    - Every Third Day - Manual method particulate samplers that run every third day.
    - Every Sixth Day – Manual method particulate samplers that run every sixth day.

- 40 CFR section 58 Appendix A QA Assessment – A "**YES**" indicates the sensor is maintained in accordance with the Quality Assurance (QA) requirements specified in 40 CFR Part 58 Appendix A.

- 40 CFR section 58 Appendix C Monitoring Classification – Each ambient air monitor is classified using the EPA "List of Designated Reference and Equivalent Methods" (see EPA Transfer Technology Network web page – link below).
    - Reference or Federal Reference Method (FRM) – a method of sampling that is specified in CFR Part 50.
    - Equivalent or Federal Equivalent Method (FEM) – a method that is designated as equivalent to the reference method, in accordance with 40 CFR Part 53.
    - Automated – after sampling, the analysis results are available immediately.
    - Manual - after sampling, a separate analysis at a laboratory is necessary.

  In Appendix B, the previously mentioned descriptions are combined into the following groupings:
    - Automated Reference Method,
    - Manual Reference Method,
    - Automated Equivalent Method,
    - Manual Equivalent Method, or
    - NONE – appears where there is no reference or equivalent method.

- 40 CFR section 58 Appendix C Monitoring Method – Each ambient air monitor is classified by a specific "method number." These numbers can be found in the EPA "List of Designated Reference and Equivalent Methods" (see EPA Transfer Technology Network web page at http://www.epa.gov/ttn/amtic/files/ambient/criteria/reference-equivalent-methods-list.pdf).

- Monitoring Method Description – Each individual ambient air monitor type has a specific method of pollutant detection. Common examples are:
    - Ozone monitors – Ultraviolet (UV) Absorption
    - SO_2- UV Fluorescence
    - CO - Non-dispersive Infrared (IR)
    - NO_2 or NOx – Chemiluminescence
    - Lead-Inductively Coupled Argon Plasma-Optical Emissions Spectrometry
    - $PM_{2.5}$, PM_{10} - Gravimetric (or gravimetric by TEOM (tapered element micro balance)), or Beta attenuation
    - PAMS - Auto GC (Gas Chromatograph), Dual FID (flame ionization detector)

- 40 CFR section 58 Appendix D Design Criteria – Appendix D requires a certain number of monitoring samplers per geographic area. A "**YES**" indicates that the number of monitors in that particular area meets or exceeds the requirement of 40 CFR Part 58 Appendix D.

- 40 CFR section 58 Appendix D Scale – The specific "spatial scales of representation" describes the physical dimensions of the air parcel around the monitoring station throughout which actual pollutant concentrations are reasonably similar.
    - Microscale - Areas ranging from several meters to about 100 meters,
    - Middle scale - Areas ranging from 100 meters to 0.5 kilometers,
    - Neighborhood - 0.5 to 4.0 kilometers, and uniform land use,
    - Urban scale - 4 to 50 kilometers, and
    - Regional - ten to hundreds of kilometers.

- 40 CFR section 58 Appendix D Objective – Describes the purpose/objective for monitoring at a site.
    - Extreme downwind
    - General/Background concentration
    - Highest concentration
    - Maximum ozone concentration
    - Population exposure
    - Regional transport
    - Source oriented

- 40 CFR section 58 Appendix E Siting Criteria – Describes certain criteria applicable to ambient air quality sampling probes and monitoring paths, such as distances from trees, obstructions, traffic lanes, etc. A "**YES**" indicates that the sensor at the given site meets or exceeds the requirements of 40 CFR Part 58 Appendix E.

- Comments – The database contains a comments section for each monitor. Appropriate comments, as necessary, are found in this area.

Changes to Monitoring Sites and Samplers in 2009-2010

$PM_{2.5}$: In 2010, the Department continued its program of replacing its manual FRM samplers (R&P Model 2025) with new Met-One Beta-Attenuation (BAM) Model 1020 FEM. Samplers at New Garden, Freemansburg, Arendtsville, Florence, Kittanning, Greensburg, and Erie were added, complimenting the units previously installed in Chester, Scranton, Carlisle, Harrisburg, Johnstown, and Charleroi. These continuous samplers meet the everyday (1-in-1) sampling frequency requirements and provide a resource savings over the manual FRM samplers. Continuous monitors report an ambient concentration every hour. The hourly concentrations are averaged to produce a daily mean for comparison to the $PM_{2.5}$ NAAQS. With the addition of these continuous (automated) $PM_{2.5}$ samplers, the non-FRM Thermo-Fisher TEOM monitors at Freemansburg, Arendtsville, and Kittanning were removed. In addition, the manual FRM samplers at New Garden, Florence, and Erie were removed. The manual FRM samplers at the Carlisle and Johnstown sites will continue to be operated as the primary monitors for compliance and to provide a comparison to the continuous FEM BAM monitors.

Lead: On November 12, 2008, EPA substantially strengthened the national ambient air quality standards (NAAQS) for lead. EPA lowered the level of the primary (health-based) standard from 1.5 micrograms per cubic meter (µg/m3) to 0.15 µg/m3, measured as total suspended particles (TSP). The revised secondary (welfare-based) lead standard is identical, in all respects, to the primary standard. In conjunction with strengthening the lead NAAQS, EPA identified the need for states, local agencies and tribes to improve existing lead monitoring networks by requiring monitors to be placed in areas with sources that emit one ton or more per year (tpy) of lead and in urban areas with more than 500,000 people.

Dispersion modeling was used to determine the general area of the maximum running 3-month average concentration for lead around each facility that emits at least one ton per year. The resulting locations of the new TSP/Lead samplers are noted in Appendix B. All sites were operational by January 1, 2010. The following is a list of facilities around which source-oriented lead monitoring is now being conducted:

1. Exelon Generation Company – Eddystone (Delaware County), Site ID No. 42-029-0004
2. Schott North America Inc – Duryea (Luzerne County), ID No. 42-079-0036
3. East Penn Manufacturing Company – Lyons (Berks County), two sites, ID No. 42-011-0022, and 42-011-0021
4. Exide Technologies – Laureldale (Berks County), two sites, ID No. 42-011-1717, and ID No. 42-011-0020
5. US Dept of Defense – Letterkenny Army Depot (Franklin County), ID No. 42-055-0002
6. Horsehead Corporation – Monaca (Beaver County), ID No. 42-007-0007
7. FirstEnergy Generation Corp – Bruce Mansfield Plant (Beaver County), ID No. 42-007-0006
8. Reliant Energy Northeast – Conemaugh (Indiana County), ID No. 42-129-0009
9. Reliant Energy Northeast – Keystone Power Plant (Indiana County), ID No. 42-063-5160
10. INMETCO – Ellwood City (Lawrence County), ID No. 42-073-0011

Originally, PA DEP was required under 40 CFR Part 58, Appendix D, to monitor in four MSAs with populations greater than 500,000 people. These areas were: Harrisburg-Carlisle MSA, Scranton-Wilkes-Barre MSA, Lancaster MSA, and the Allentown-Bethlehem-Easton MSA. However, due to petitions filed to challenge certain aspects of this rule, and upon advice from EPA Region III, the previously mentioned MSA lead monitoring sites will not be established, pending the outcome of EPA's reconsideration of the rule.

The Department terminated the following sites in the current lead monitoring network:

Monessen (Westmoreland County) – there are no lead sources in the area with the potential to cause an exceedance of the lead NAAQS. The 2007-2009 design value (running 3-month average) is 0.06 $\mu g/m^3$, which is less than half the revised lead NAAQS.

East Conemaugh (Cambria County) - there are no lead sources in the area with the potential to cause an exceedance of the lead NAAQS. The 2007-2009 design value is 0.07 $\mu g/m^3$, which is half the revised lead NAAQS.

Lyons South (Berks County) – this site was located within the property lines of East Penn Manufacturing. Therefore, according to EPA site requirements, this site cannot be used for compliance purposes.

Lyons East (Berks County) – this site was also located within the property lines of East Penn Manufacturing. Therefore, this site was terminated. The nearby Lyons site ID No. 42-011-0021, noted previously, now provides similar lead monitoring coverage.

Laureldale South (Berks County) – Collocated sampling was discontinued at this site and shifted to the new Laureldale North (ID No. 42-011-0020) site.

$PM_{2.5}$:

In accordance with the monitoring requirements in 40 CFR Part 58, Appendix D, Table D-5, the Allentown-Bethlehem-Eastern Metropolitan Statistical Area (MSA), is required to have at least two $PM_{2.5}$ monitoring sites since the current design value based on 2006-2008 data is greater than 85% of the 24-hour $PM_{2.5}$ NAAQS, one of which is to be in an area of poor air quality. PA DEP established this second $PM_{2.5}$ monitoring site, using an FRM manual sampler operating on a 1/1 schedule adjacent to the Lehigh Valley Hospital – Muhlenberg (Lehigh County). This site (ID No. 42-095-0027), which is upwind of a populated area, should be influenced by mobile sources on Rt. 22 and Rt. 378, and airport emissions from the Lehigh Valley International Airport. The second existing $PM_{2.5}$ monitoring site in Freemansburg (Northampton County) is located 5 miles southeast of this new location.

In addition, PA DEP is also installing continuous $PM_{2.5}$ FEM samplers at new sites in Lebanon and Monroe counties. Lebanon, which was once part of the Harrisburg-Carlisle Metropolitan Statistical area (MSA), is now considered a separate MSA with a population of over 125,000 based on 2007 census estimates. The East Stroudsburg (Monroe County) is a large Micropolitan Statistical area with a population of 165,000 based on 2007 census estimates.

Finally, by the end of 2010, the Department expects to replace the manual Thermo $PM_{2.5}$ samplers at Bristol, State College, and Altoona sites, with new Met-One $PM_{2.5}$ FEM samplers.

Ozone: In 2010, PA DEP will add an additional ozone monitor at a new site in Lebanon (Lebanon County.). This site fulfills the requirement of 40 CFR Part 58 Appendix D to have an ozone monitor in the newly established Lebanon MSA. This installation, which is required by January 2012, will be completed one year ahead of EPA's compliance date.

Air Toxics: As indicated in PA DEP's 2010 Air Monitoring Network Plan, PA DEP will continue its plan to provide a better understanding of VOC concentrations across the Commonwealth. In January 2010, PA DEP relocated air toxics sampling equipment to the following sites: Norristown (Montgomery County), Freemansburg (Northampton County), Scranton (Lackawanna County), Harrisburg (Dauphin County), Altoona (Blair County), Beaver Falls (Beaver County), and Greensburg (Westmoreland County). Data from the 2009 sites did not indicate VOC concentrations in excess of the statewide average. When the data from the 2009 and 2010 initial characterization is done, a revised monitoring plan for permanent air toxic samplers will be developed.

Site and Monitoring Activity Anticipated within the Next 18 Months

$PM_{2.5}$:

Beaver Falls (Beaver County), Lancaster (Lancaster County.), Norristown, (Montgomery County), Reading Airport (Berks County), and York (York County) – All five TEOM FDMS samplers have been upgraded to FEM status. After a comparison of data between the FDMS units and its associated FRM is verified and found to be acceptable, the following FRM samplers will be removed: Beaver Falls, Norristown, and Reading Airport. For collocation purposes, FRM samplers will remain at Lancaster and York. In addition, the Department has ordered five additional Met-One $PM_{2.5}$ FEM samplers to replace existing Thermo $PM_{2.5}$ FRM manual samplers. The sites for the new $PM_{2.5}$ samplers have not been determined.

Ozone:

Biglerville (Adams County) – This special purpose monitoring site is funded under a Cooperative Agreement with Penn State University to study the effects of ozone on grape leaves. However, this contract is scheduled to expire in June 2011. Prior to the expiration of the Cooperative Agreement, the Department will determine if the monitoring at the Biglerville (Adams County) site should be terminated.

SO2:

As noted in DEP's 2009 Monitoring Network Plan, Warren High School site (AIRS site No. 42-123-0003) was shut down in April 2009. The sampler was removed from the site and should be restarted as a special purpose monitoring site located on East Pennsylvania Avenue, just south of United Refining. It is hoped that all site license agreement, site preparation, and installation work can be completed under this 2011 plan.

Ammonia: As previously noted in the 2010 Monitoring Network Plan, Nitrolux Ammonia monitors were purchased and installed in Lancaster (Lancaster County) and York (York County) in 2004 and 2006, respectively, to test the reliability of the equipment. During this time we have found the ammonia monitoring system, including monitor, calibrator, and zero air equipment to be troublesome and unstable at the low levels of ammonia found in the ambient air. As a result, both monitors have been returned to the manufacturer for updating of the detection system and the installation of a reference cell. These samplers are now returned, and when tested will be re-deployed to the Lancaster and York sites. This re-deployment will also require PA DEP to purchase better support equipment such as a reliable and portable zero air generator. As of this date, no suitable device has been located. In addition, we have received a demonstration TECO ammonia monitor for our examination and study. Should PA DEP determine that either of the monitors is suitable, the Department will examine the feasibility of installing an ammonia monitor in Berks County in 2011.

H2S:

Bethlehem H2S (Northampton County) – This source-oriented site was established to monitor malodors from an industrial mineral fiber plant (MFS). The MFS plant closed in 2006 and monitoring is no longer needed. Therefore, H2S monitoring will be discontinued at the site and the sampler removed in 2011.

Air Toxics:

As part of the routine air toxics sampling network, PA DEP currently performs carbonyl monitoring at the Arendtsville, Lancaster and Lewisburg sites and will continue the operation of those sites through 2011. The Department intends to purchase two additional carbonyl monitors in 2010. The location of the monitoring sites for these monitors has not yet been determined.

PADEP continues to work with our university partners to conduct sampling across the Commonwealth. PADEP currently has partnerships with Millersville University, Gannon University, Bucknell University, Ursinus University, Slippery Rock University, and the Pennsylvania State University and continues to look for opportunities to partner with other institutes.

Lead: In conjunction with strengthening the lead NAAQS noted earlier, EPA is proposing to improve existing lead monitoring networks by requiring source-oriented monitors to be placed in areas with sources that emit between 0.5 and one ton per year (tpy) of lead and in urban areas with more than 500,000 people. If the recently adopted lead threshold of one tpy or more is lowered to the proposed 0.5 tpy or more, eight additional source-oriented monitoring sites would be required in Pennsylvania.

If EPA retains the January 1, 2011 date for the installation and operation of the additional lead monitors, the following facilities are potential sites for source-oriented lead monitors under this proposal:

AK Steel	Butler County
Armstrong Cement	Butler County
EME Homer City	Indiana County
Allegheny Energy Hatfield	Fayette County
Allegheny Ludlum	Westmoreland County
PPL Montour	Montour
Horsehead	Palmerton
Mt. Joy Wire	Lancaster

General Description of Criteria Pollutants

Ozone (O_3)

Ground-level ozone, or photochemical smog, is a secondary pollutant. Ozone is generally not emitted directly into the atmosphere as ozone, but rather is formed by chemical reactions between other air pollutants. The primary pollutants involved in these reactions -- volatile organic compounds (VOCs)

and oxides of nitrogen (NO_x) -- form ozone in the presence of sunlight and warm temperatures. Thus, sources that emit these ozone precursors are sources of ozone. Nitrogen oxides result from fossil fuel combustion and sources commonly include power plants, industrial boilers, and motor vehicles. VOCs are emitted from a variety of sources, including motor vehicles, chemical plants, refineries and even natural (biogenic) sources. Ozone and the precursor pollutants that cause ozone also can be transported into an area from pollution sources located hundreds of miles away. Because the formation of ozone is boosted by increasing sunlight and temperatures, changing weather patterns contribute to yearly differences in ozone concentrations, with peak concentrations occurring during the summer months. Ground-level ozone is a strong irritant to the eyes and upper respiratory system and can hamper breathing. It also damages vegetation, including forest and agricultural crops, and man-made materials such as monuments and statues.

Ozone is measured by ultraviolet absorption photometry. Air is drawn through a sample cell where ultraviolet light (254 nm wavelength) passes through it. Any light that is not absorbed by the ozone is then converted into an electrical signal proportional to the ozone concentration.

Sulfur Dioxide (SO_2)

Sulfur dioxide is a gaseous pollutant that is emitted primarily by industrial furnaces or power plants burning sulfur-containing coal or oil. The major health effects associated with high exposures to sulfur dioxide include effects on breathing and respiratory illness symptoms. The population most sensitive to sulfur dioxide includes asthmatics and individuals with chronic lung disease or cardiovascular disease. Sulfur dioxide damages vegetation, including forests and agricultural crops, and acts as a precursor to acid rain. Finally, sulfur dioxide can accelerate the corrosion of natural and man-made materials that are used in buildings and monuments, as well as paper, iron-containing metals, zinc, and other protective coatings.

Sulfur dioxide is measured with a fluorescence analyzer. Air is drawn through a sample cell where it is then subjected to high intensity ultraviolet light. This causes in the sulfur dioxide molecules in the air to fluoresce and release light. The fluorescence is detected with a photomultiplier tube and converted to an electrical signal proportional to the SO_2 concentration.

Carbon Monoxide (CO)

Carbon monoxide is a byproduct of the incomplete burning of fuels. Industrial processes contribute to carbon monoxide pollution levels, but the largest man-made source of carbon monoxide is motor vehicle emissions. This pollutant is a health concern in areas of high traffic density or near industrial sources. Peak carbon monoxide concentrations typically occur during the colder months of the year when automotive emissions are greater and nighttime inversion (a weather-related phenomenon) conditions are more frequent.

Carbon monoxide is a colorless, odorless, poisonous gas that has an affinity for hemoglobin, 210 times that of oxygen. By combining with the hemoglobin in the blood, it inhibits the delivery of oxygen to the body's tissue, thereby causing or shortness of breath, asphyxia and eventually death. The health threat from carbon monoxide is most serious for those who suffer from cardiovascular disease. At much higher levels of exposure, healthy individuals are also affected.

Carbon monoxide is measured by infrared absorption photometry. A continuous flow of air is drawn through a sample cell where infrared light passes through it. The carbon monoxide molecules absorb a portion of the infrared light. This reduces the amount of light getting to the sensor. The light is then converted into an electrical signal related to the concentration of carbon monoxide in the sample cell.

Lead (Pb)

Lead is emitted to the atmosphere by vehicles burning leaded fuel and from certain industrial processes, primarily battery manufacturers and lead smelters. As a result of the reduction in lead in gasoline, metal processing is now the major source of lead emissions.

Lead is a highly toxic metal when ingested or inhaled. It is a suspected carcinogen of the lungs and kidneys and has adverse effects on the cardiovascular, nervous, and renal systems.

The amount of lead in ambient air is measured by laboratory analysis of TSP filters by Inductively Coupled Argon Plasma-Optical Emission Spectrometry.

Nitrogen Dioxide (NO_2)

Nitrogen dioxide is a highly toxic, reddish brown gas that is created primarily from fuel combustion in industrial sources and vehicles. It creates an odorous brown haze that causes eye and sinus irritation, blocks natural sunlight and reduces visibility. It can severely irritate the respiratory system and has been associated with acute effects in individuals diagnosed with respiratory disease. Nitrogen dioxide contributes to the creation of acid rain and plays a key role in nitrogen loading, adversely impacting forests and other ecosystems.

Nitrogen oxides are measured using the chemiluminescence reaction of nitric oxide (NO) with ozone (O_3). Air is drawn into a reaction chamber where it is mixed with a high concentration of ozone from an internal ozone generator. Any nitric oxide mixes with ozone to produce NO_2. Light from this reaction is detected with a photomultiplier tube and converted to an electrical signal proportional to the nitric oxide concentration. Total nitrogen oxides (NO_x) are measured by passing the air through a converter where any NO_2 in the air is reduced to nitric oxide before the air is passed to the reaction chamber. By alternately passing the air directly to the reaction chamber, and through the converter before the reaction chamber, the analyzer alternately measures nitric oxide and NO_x. Nitrogen dioxide (NO_2) is measured indirectly by a subtraction of the NOx and NO_2 concentrations.

Fine Particulate Matter ($PM_{2.5}$)

Fine particulate emissions result primarily from industrial processes and fuel combustion - including motor vehicles, residential wood burning and forest or agricultural fires.

Fine particles can accumulate in the respiratory system and are associated with numerous adverse health effects including decreased lung function and increased respiratory symptoms and disease. Sensitive groups that appear to be at greatest risk include the elderly, individuals with cardiopulmonary disease such as asthma, and children. $PM_{2.5}$ is the major cause of reduced visibility in parts of the

United States. Other environmental impacts occur when particles deposit onto soil, plants, water, or man-made materials such as monuments or statues.

$PM_{2.5}$ is sampled by drawing air through a specially designed inlet that excludes particles larger than 2.5 microns in diameter. For the manual Federal Reference Method (FRM) sampler, the particles are collected on a Teflon™ Microfiber filter that is weighed to determine the particulate mass. The normal sampling schedule is for a 24-hour sample to be taken everyday. In addition, PA DEP has 19 monitors that record $PM_{2.5}$ data continuously. PA DEP utilizes the Met One Model 1020 Federal Equivalent Method (FEM) and the Thermo-Fisher TEOM-FDMS monitors.

Particulate Matter (PM_{10})

PM_{10} (including $PM_{2.5}$) appears to represent essentially all of the particulate emissions from transportation sources and most of the emissions in the other traditional categories (coal-burning power plants, steel mills, mining operations, etc). Although $PM_{2.5}$ is technically included in the definition of PM_{10}, the terms "PM_{10}" or "coarse" particles are commonly used to refer to particles greater than $PM_{2.5}$, but less than 10 micrometers in diameter.

Sources of coarse particles any include dust-producing process, such as crushing or grinding operations, as well as dust stirred up by vehicles traveling on roads. While they are not as much of a health concern as are fine particles, they can aggravate respiratory conditions and irritate the linings of the eyes, nose, throat and lungs. In the environment, PM_{10} contributes to reduced visibility and degradation of man-made materials.

PM_{10} is sampled continuously using a tapered element oscillating microbalance (TEOM). Air is drawn through a specially designed inlet that excludes particles larger than 10 microns in diameter. Particle accumulation causes changes in the microbalance oscillation that are recorded by the instrument.

Air Pollution Control Agencies in Commonwealth of Pennsylvania

Allegheny County Health Department
39th Street and Penn Avenue
Pittsburgh, PA 15201
(412) 578-8104

City of Philadelphia
Department of Public Health
Air Management Services
321 University Avenue
Philadelphia, PA 19104
(215) 685-7584

Department of Environmental Protection
Bureau of Air Quality
Division of Air Quality Monitoring
Rachel Carson State Office Building 12th Floor
400 Market Street
P.O. Box 8468
Harrisburg, PA 17105-8468
(717) 787-6548

Related environmental information is available electronically via the Internet. Access the DEP website at http://www.depweb.state.pa.us/
(DEP Keyword: Air, Air Pollution, Air Quality, Clean Air)

Appendix A — Monitoring Sites, Equipment, Maps and Addresses

Table A1. Ambient Air Monitoring Equipment for Particulate Sampling

PARAMETER	MANUFACTURER/INSTRUMENT/MODEL	EPA DESIGNATION
PM_{10}		
Discrete	Thermo GMW PM_{10} High-Volume Air Sampler - Volumetric http://www.thermo.com/com/cda/product/detail/1,1055,23297,00.html	Manual Reference Method: RFPS-1287-063 52 FR 45684, 12/01/87 53FR 1062, 1/15/88
Continuous	Rupprecht & Patashnick (R&P) Tapered Element Oscillating Microbalance (TEOM) Series 1400 Ambient Particulate Monitor http://www.rpco.com/products/ambprod/amb1400/index.htm	Automated Equivalent Method: EQPM-1090-079 55 FR 43406, 10/29/90
$PM_{2.5}$		
Discrete	R&P Partisol-Plus Model 2025 Sequential Air Sampler http://www.rpco.com/products/ambprod/amb2025/index.htm	Manual Reference Method: RFPS-0498-118 63 FR 18911, 4/16/98
Continuous	R&P TEOM Series 8500a Filter Dynamics Measurement System (FDMS) and TEOM Series 1400ab http://www.rpco.com/products/ambprod/amb8500/index.htm	Automated Equivalent Method EQPM-069-181 74 FR 28696, 2/17/2009
	Met One Instruments Beta-Attenuation Mass (BAM) Model 1020 http://www.metone.com/documents/BAM1020Particulate.pdf	Automated Equivalent Method EQPM-0308-170 73 FR 13224, 3/12/2008
$PM_{2.5}$ Speciation	Met One Instruments SASS $PM_{2.5}$ Ambient Chemical Speciation Air Sampler http://www.metone.com/documents/SASS0301Particulate.pdf	
TSP	Thermo GMW TSP High Volume Air Sampler – Mass Flow http://www.thermo.com/com/cda/product/detail/1,1055,23329,00.html and Thermo GMW TSP High Volume Air Sampler – Volumetric http://www.thermo.com/com/cda/product/detail/1,1055,23328,00.html and Hi-Q HVP-4300AFC-TempPress—Mass Flow http://www.hi-q.net/products/outdoor-high-volume-air-samplers/3500-series-automatic-flow-control-high-volume-tsp-with-brushless-blower/default.html	Manual Reference Method 40 CFR Part 50, Appendix B 47 FR 54912, 12/6/82 48 FR 17355, 4/22/83
Pb	Laboratory analysis of TSP filters by Inductively Coupled Argon Plasma-Optical Emission Spectrometry	Manual Equivalent Method EQL-0592-086 57 FR 20823, 5/15/92
SO_4, NO_3	Laboratory analysis of TSP filters by Ion Chromatography	EPA Method 300.0

Table A2. Ambient Air Monitoring Equipment for Continuous Gaseous Sampling

PARAMETER	MANUFACTURER/INSTRUMENT/MODEL	EPA DESIGNATION
SO_2	Teledyne Advanced Pollution Instrumentation Model 100A UV Fluorescence SO_2 Analyzer http://www.teledyne-api.com/products/100e.asp	Automated Equivalent Method: EQSA-0990-077 55 FR 38149, 9/17/90
NO_2 /NO_x	Teledyne Advanced Pollution Instrumentation Model 200A Chemiluminescence Nitrogen Oxides Analyzer for Ambient Concentrations http://www.teledyne-api.com/products/200e.asp	Automated Reference Method: RFNA-0691-082 56 FR 27014, 6/12/91
O_3	Teledyne Advanced Pollution Instrumentation Model 400 Photometric Ozone Analyzer http://www.teledyne-api.com/products/400e.asp	Automated Equivalent Method: EQOA-0992-087 57 FR 44565, 9/28/92 63 FR 31992, 6/11/98 67 FR 57811, 9/12/02
CO	Teledyne Advanced Pollution Instrumentation Model 300 CO Gas Filter Correlation Analyzer http://www.teledyne-api.com/products/300e.asp	Automated Reference Method: RFCA-1093-093 58 FR 58166, 10/29/93

Table A3-1. Southeast Region Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
P01	BRISTOL	42-017-0012	BUCKS	Roosevelt Junior High School Rockview Lane	40.10738 -74.8824
P02	RIDLEY PARK	42-045-0004	DELAWARE	Industrial Highway (RT291)	39.86292 -75.3256
P11	CHESTER	42-045-0002	DELAWARE	Front & Norris Streets	39.83519 -75.3721
P21	NORRISTOWN	42-091-0013	MONTGOMERY	State Armory 1046 Belvoir Road	40.11327 -75.3086
P30	NEW GARDEN (TOUGHKENAMON)	42-029-0100	CHESTER	1235 Newark Road New Garden Airport	39.83458 -75.7680

Table A3-2. Parameters Monitored by Site – Southeast Region Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
P01	BRISTOL		X						X	X	X	X
P02	RIDLEY PARK				X		X					
P11	CHESTER	X	X		X		X		X	X	X	
P21	NORRISTOWN		X						X		X	
P30	NEW GARDEN (TOUGHKENAMON)		X	X							X	

Southeast Region. Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties.

Figure A1. Map of the Southeast Region Air Basin Sites

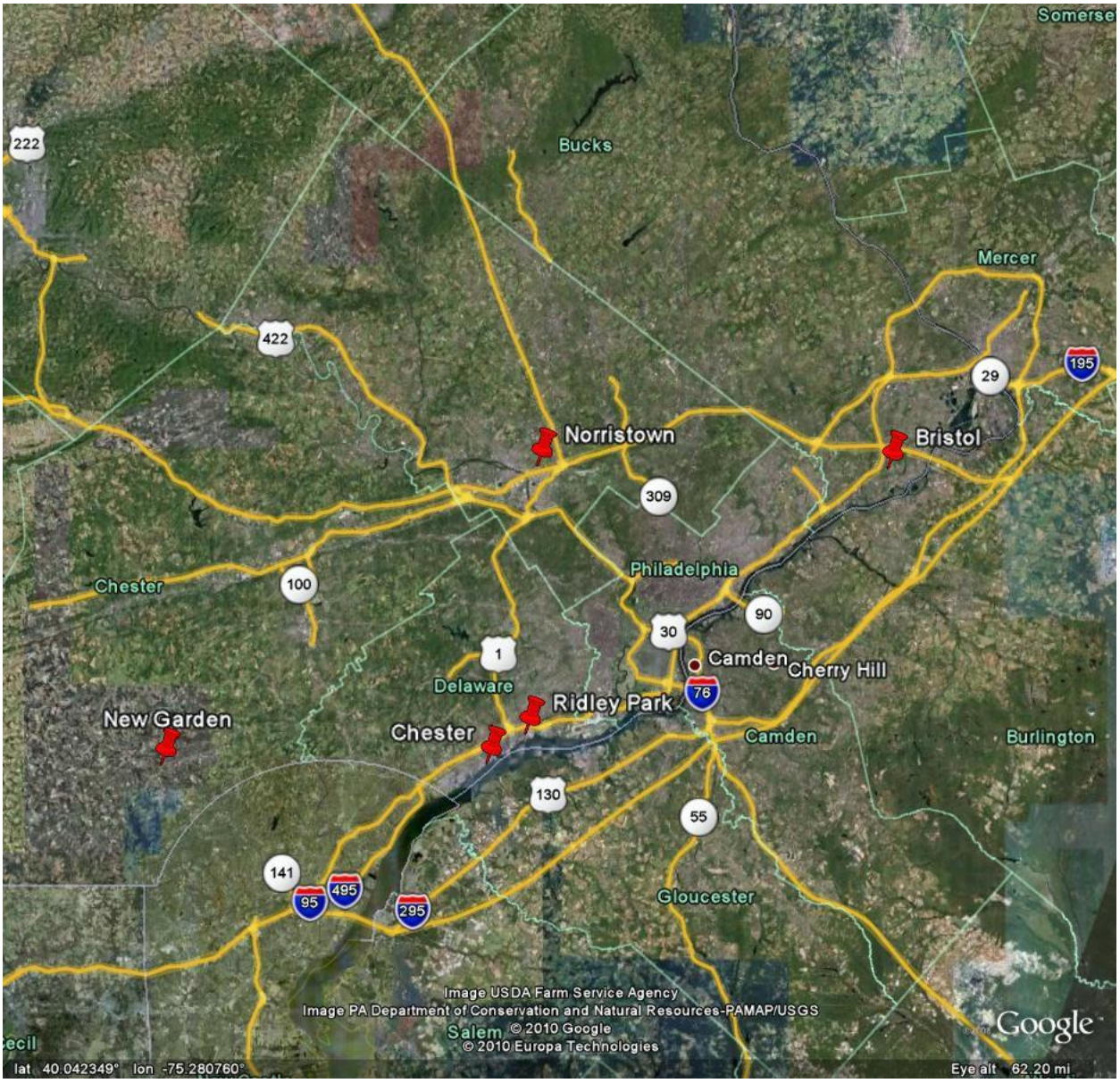


Table A4-1. Allentown - Bethlehem - Easton Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
A19	ALLENTOWN	42-077-0004	LEHIGH	Allentown State Hospital Rear 1600 Hanover Avenue	40.61194 -75.4326
A20	EASTON	42-095-8000	NORTHAMPTON	17th & Spring Garden Streets	40.69230 -75.2371
A25	FREEMANSBURG	42-095-0025	NORTHAMPTON	Washington & Cambria Streets	40.62847 -75.3415
A26	NAZARETH	42-095-1000	NORTHAMPTON	South Green & Delaware	40.74055 -75.3013
A27	LEHIGH VALLEY	42-095-0027	NORTHAMPTON	2604 Schoenersville Road	40.64586 -75.4043

Table A4-2. Parameters Monitored by Site – Allentown - Bethlehem - Easton Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
A19	ALLENTOWN	X									X	
A20	EASTON								X		X	
A25	FREEMANSBURG		X	X						X	X	X
A26	NAZARETH	X										
A27	LEHIGH VALLEY		X									

Northeast Region. Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, and Wyoming Counties.

Figure A2. Map of the Allentown - Bethlehem - Easton Air Basin Sites

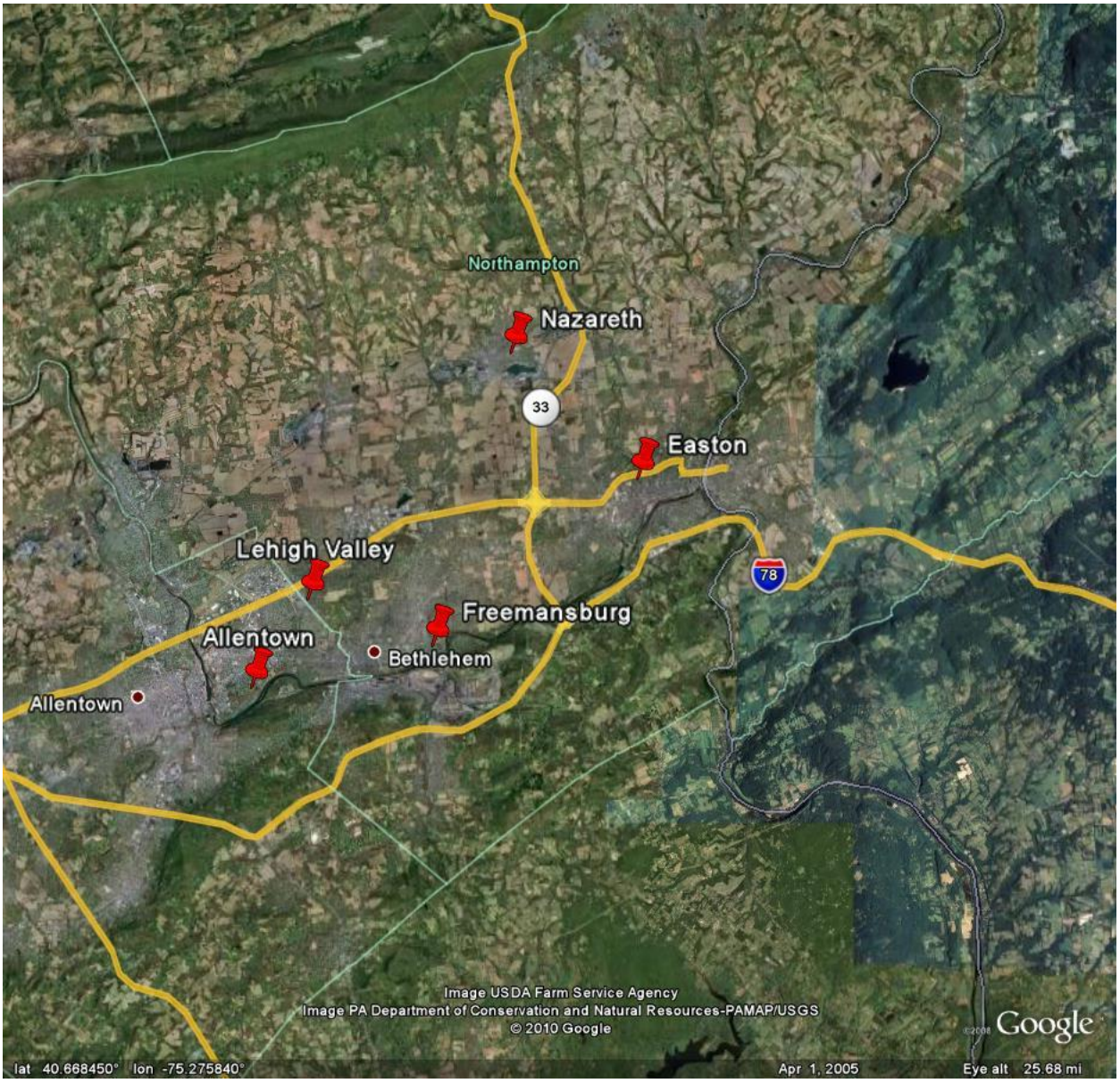


Table A5-1. Scranton - Wilkes-Barre Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
S01	SCRANTON	42-069-2006	LACKAWANNA	Behind Penn State Campus George Street	41.44286 -75.623
S02	DURYEA	42-079-0036	LUZERNE	401 York Avenue	41.34886 -76.7473
S26	NANTICOKE	42-079-1100	LUZERNE	255 Lower Broadway	41.20919 -76.0035
S28	WILKES-BARRE	42-079-1101	LUZERNE	Chilwick & Washington Streets	41.26597 -75.8463
S29	PECKVILLE	42-069-0101	LACKAWANNA	Pleasant Avenue & Erie Street Wilson Fire Company No. 1	41.47908 -75.5781

Table A5-2. Parameters Monitored by Site – Scranton – Wilkes-Barre Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
S01	SCRANTON		X	X						X	X	X
S02	DURYEA				X		X					
S26	NANTICOKE										X	
S28	WILKES-BARRE	X							X		X	
S29	PECKVILLE										X	

Northeast Region. Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, and Wyoming Counties.

Figure A3. Map of the Scranton - Wilkes-Barre Air Basin Sites

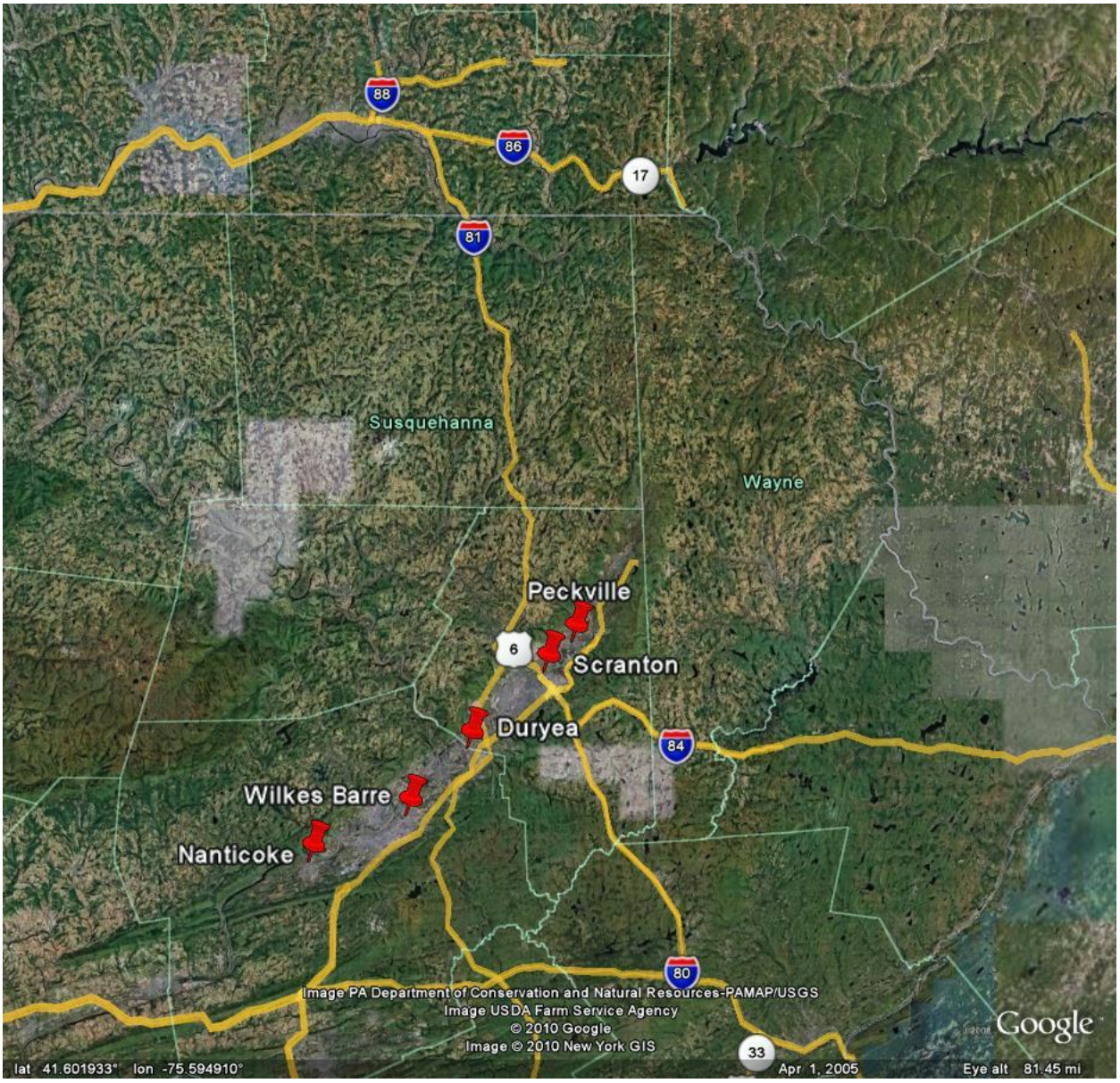


Table A6-1. Northeast Region Non-Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
230	SWIFTWATER/ POCONO	42-089-0002	MONROE	Pocono State Forestry Office Near Rt. 611 & Brookdale Road	41.08306 -75.3232

Table A6-2. Parameters Monitored by Site – Northeast Region Non-Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
230	SWIFTWATER/ POCONO										X	

Northeast Region. Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, and Wyoming Counties.

Figure A4. Map of Northeast Region Non-Air Basin Sites

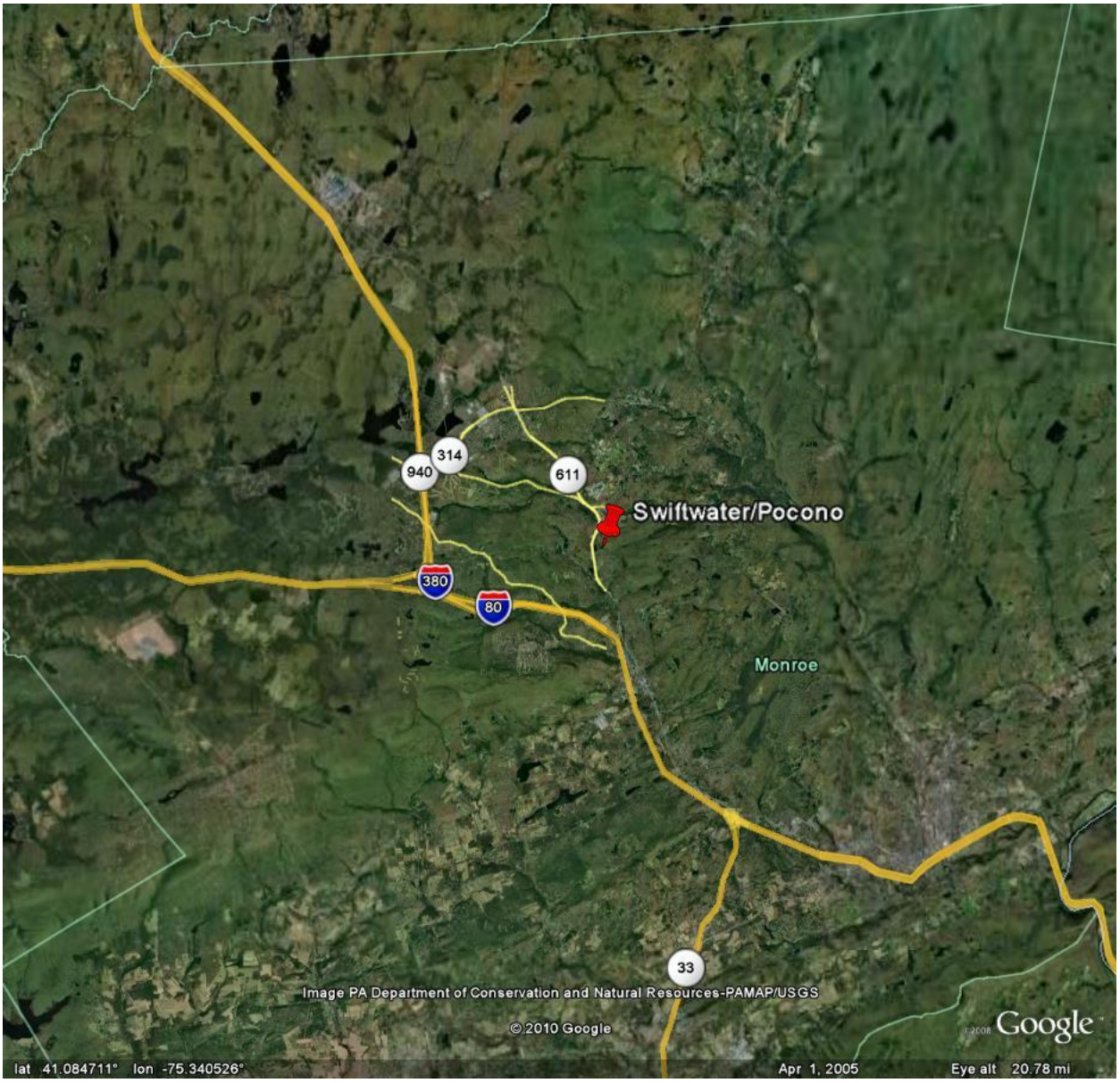


Table A7-1. Reading Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
R03	READING AIRPORT	42-011-0011	BERKS	Reading Airport 1059 Arnold Road	40.38335 -75.9686
R10	LAURELDALE SOUTH	42-011-1717	BERKS	Muhlenberg Township Authority Spring Valley Road Substation	40.37730 -75.9145
R11	LAURELDALE NORTH	42-011-0020	BERKS	3139 Kutztown Road	40.38598 -75.9128

Table A7-2. Parameters Monitored by Site – Reading Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
R03	READING AIRPORT	X	X	X					X	X	X	X
R10	LAURELDALE SOUTH				X		X					
R11	LAURELDALE NORTH				X		X					

Southcentral Region. Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, and York Counties.

Figure A5. Map of the Reading Air Basin Sites

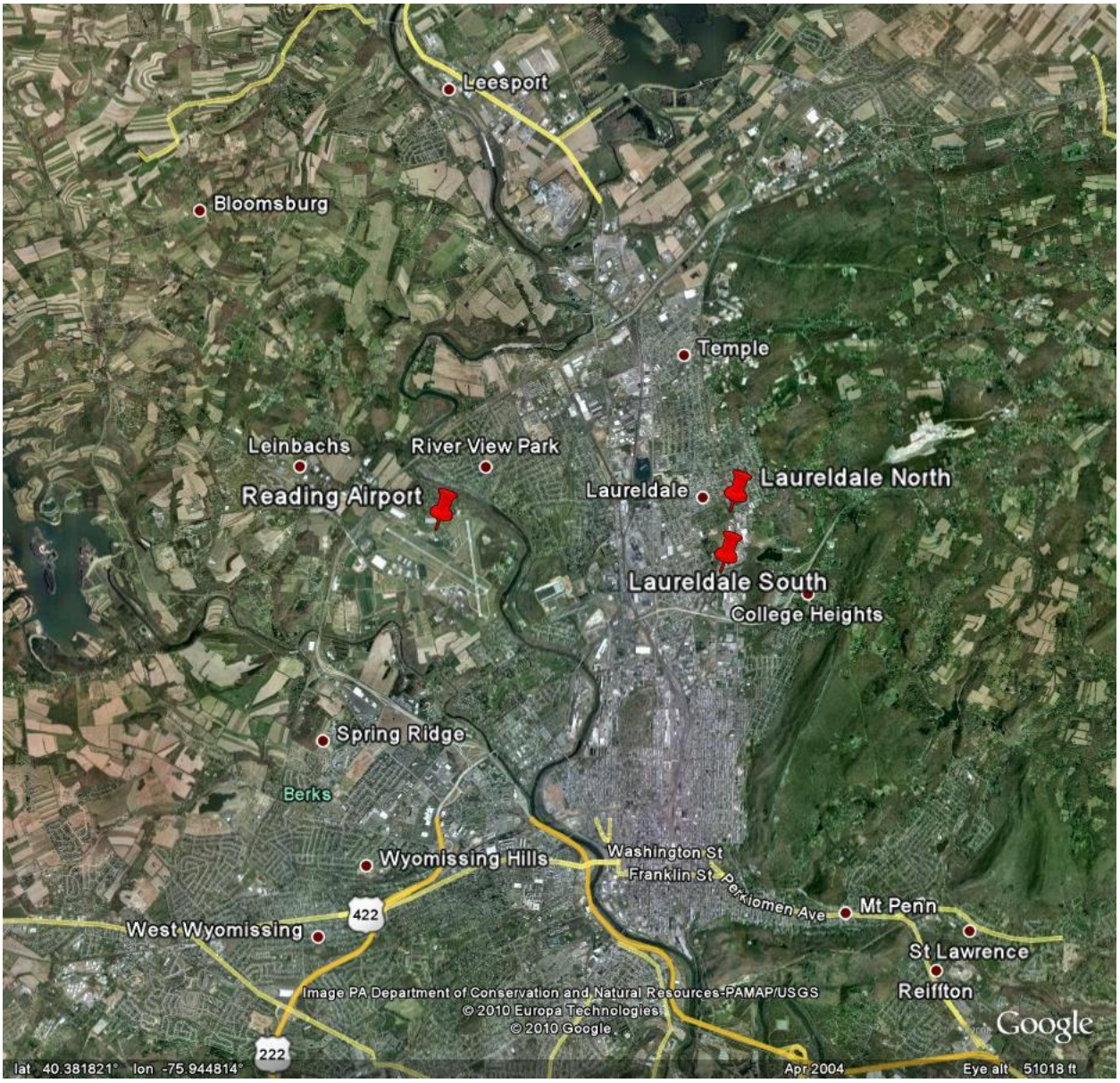


Table A8-1. Lancaster Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
L01	LANCASTER	42-071-0007	LANCASTER	Abraham Lincoln Junior High School	40.04686 -76.2834
L12	LANCASTER DOWNWIND	42-071-0012	LANCASTER	3545 W. Newport Road	40.04383 -76.1124

Table A8-2. Parameters Monitored by Site – Lancaster Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
L01	LANCASTER	X	X	X						X	X	
L12	LANCASTER DOWNWIND										X	

Southcentral Region. Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, and York Counties.

Figure A6. Map of the Lancaster Air Basin Sites

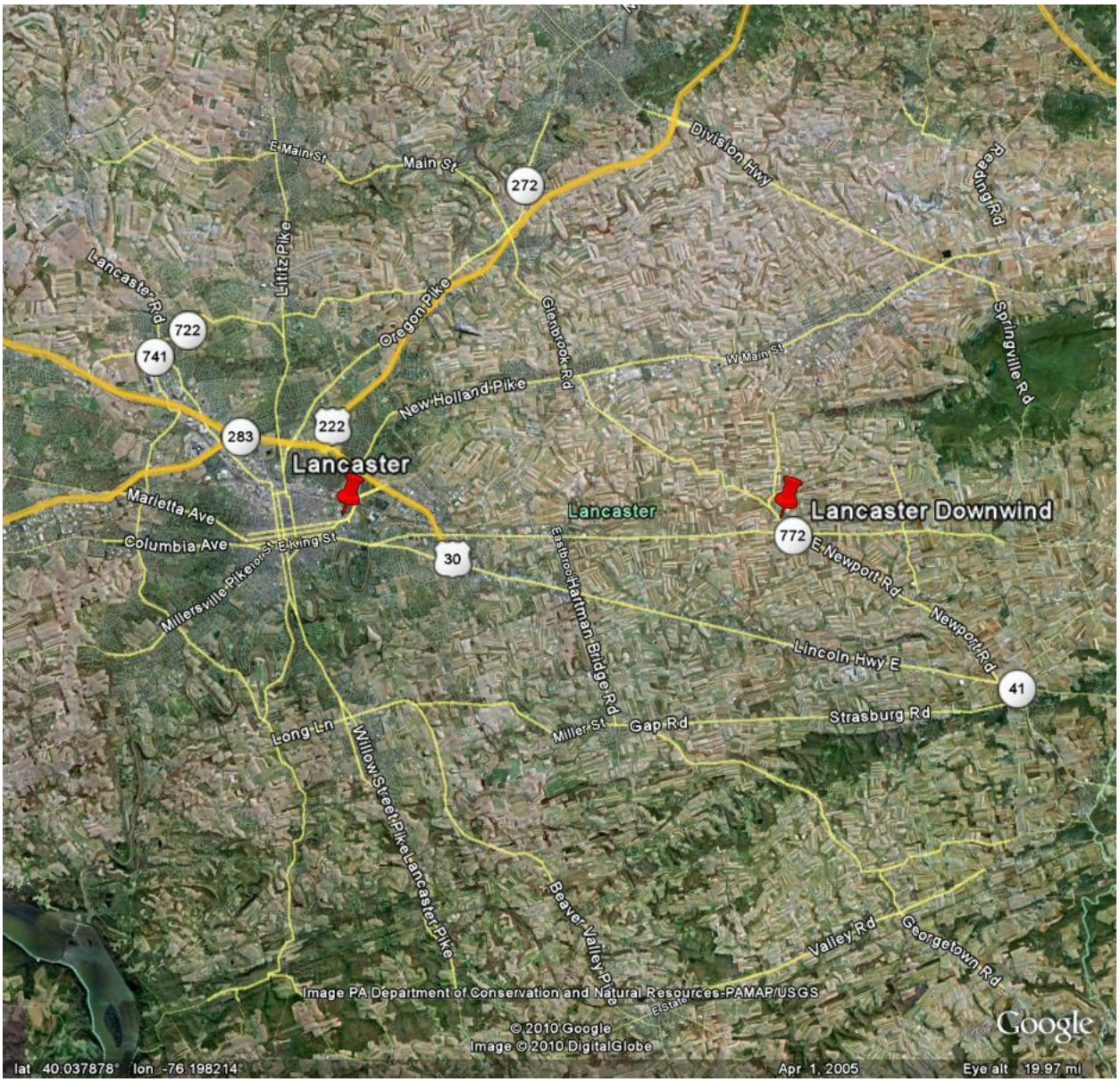


Table A9-1. Harrisburg Air Basin Site Location

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
H11	HARRISBURG	42-043-0401	DAUPHIN	1833 UPS Drive	40.24508 -76.8447

Table A9-2. Parameters Monitored by Site – Harrisburg Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
H11	HARRISBURG	X	X	X						X	X	X

Southcentral Region. Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, and York Counties.

Figure A7. Map of the Harrisburg Air Basin Site

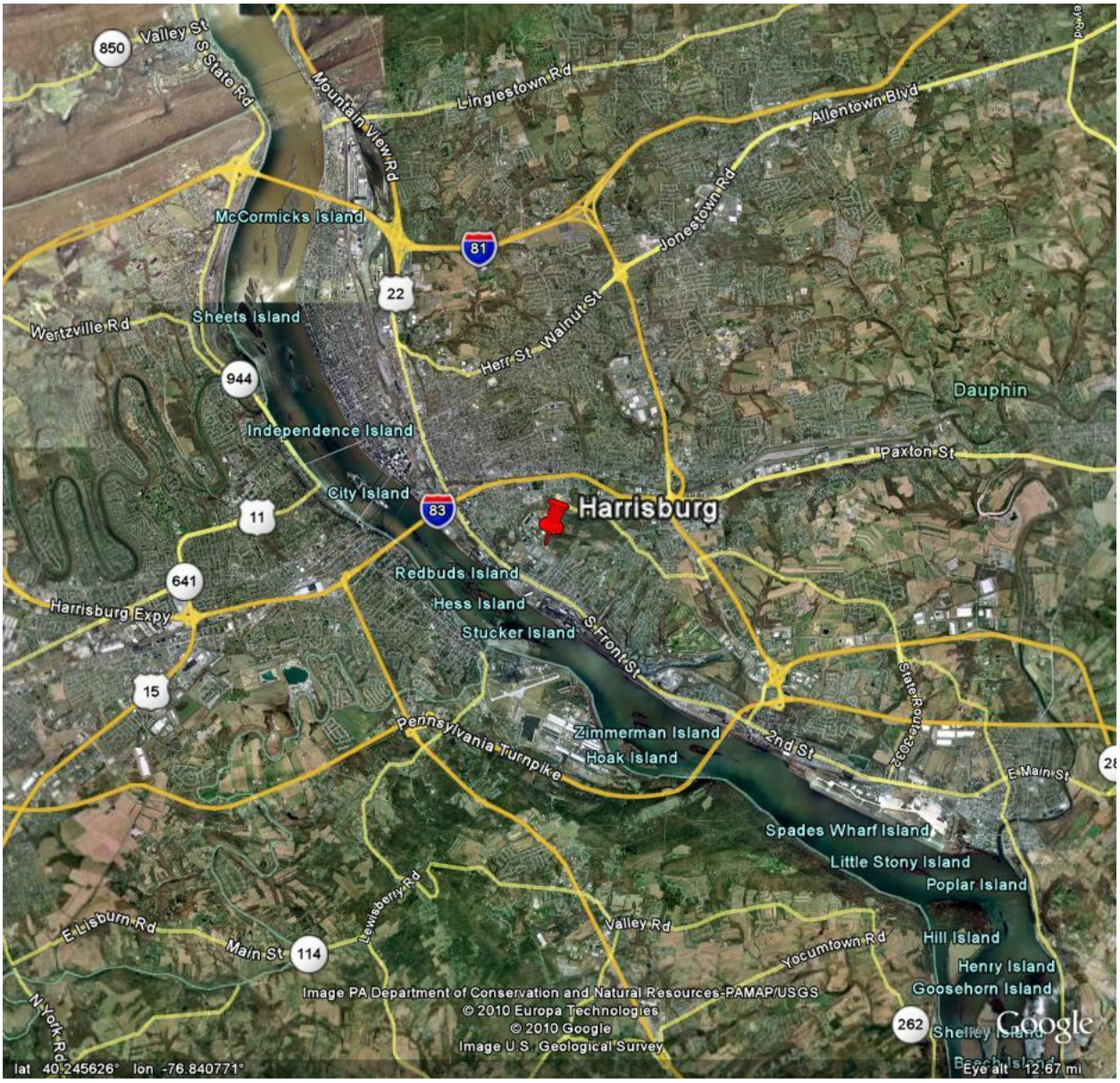


Table A10-1. York Air Basin Site Location

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
Y01	YORK	42-133-0008	YORK	Davis Junior High School Hill Street	39.96552 -76.6995
Y11	YORK DOWNWIND	42-133-0011	YORK	2650 Delta Road – Brogue	39.86097 -76.4620

Table A10-2. Parameters Monitored by Site – York Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
Y01	YORK	X	X	X					X	X	X	X
Y11	YORK DOWNWIND										X	

Southcentral Region. Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, and York Counties.

Figure A8. Map of the York Air Basin Site

Table A11-1. Southcentral Region Non-Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
305	PERRY COUNTY	42-099-0301	PERRY	720 Gill Hill Road, Little Buffalo State Park	40.46 -77.1687
306	HERSHEY	42-043-1100	DAUPHIN	Hershey Foods Technical Center Sipe Avenue & Mae Street	40.27241 -76.6814
308	ALTOONA	42-013-0801	BLAIR	Ward Trucking Corporation Second Avenue & Seventh Street	40.53563 -78.3703
311	KUTZTOWN	42-011-0006	BERKS	Kutztown University	40.51408 -75.7897
313	METHODIST HILL	42-055-0001	FRANKLIN	Forest Road and Ridge Road (High Elevation Site)	39.96072 -77.4755
314	ARENDTSVILLE	42-001-0001	ADAMS	Penn State Research Orchard (NARSTO Site)	39.92330 -77.3081
316	CARLISLE	42-041-0101	CUMBERLAND	Imperial Court	40.24661 -77.1837
376	UPPER STRASBURG	42-055-0002	FRANKLIN	9716 Upper Strasburg Road	40.05982 -77.7106
377	LYONS BORO	42-011-0021	BERKS	Kemp Street	40.47707 -75.7569
378	LYONS PARK	42-011-0022	BERKS	Park Avenue	40.47831 -75.7539
D14	BIGLERVILLE	42-001-0002	ADAMS	University Drive Penn State Research Orchard	39.93497 -77.2528

Table A11-2. Parameters Monitored by Site – Southcentral Region Non-Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
305	PERRY COUNTY								X	X	X	
306	HERSHEY										X	
308	ALTOONA	X							X		X	
311	KUTZTOWN										X	
313	METHODIST HILL										X	
314	ARENDTSVILLE		X	X						X	NARSTO	X
316	CARLISLE		X									
376	UPPER STRASBURG				X		X					
377	LYONS BORO				X		X					
378	LYONS PARK				X		X					
D14	BIGLERVILLE										X	

Southcentral Region. Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, and York Counties.

Figure A9. Map of the Southcentral Region Non-Air Basin Sites

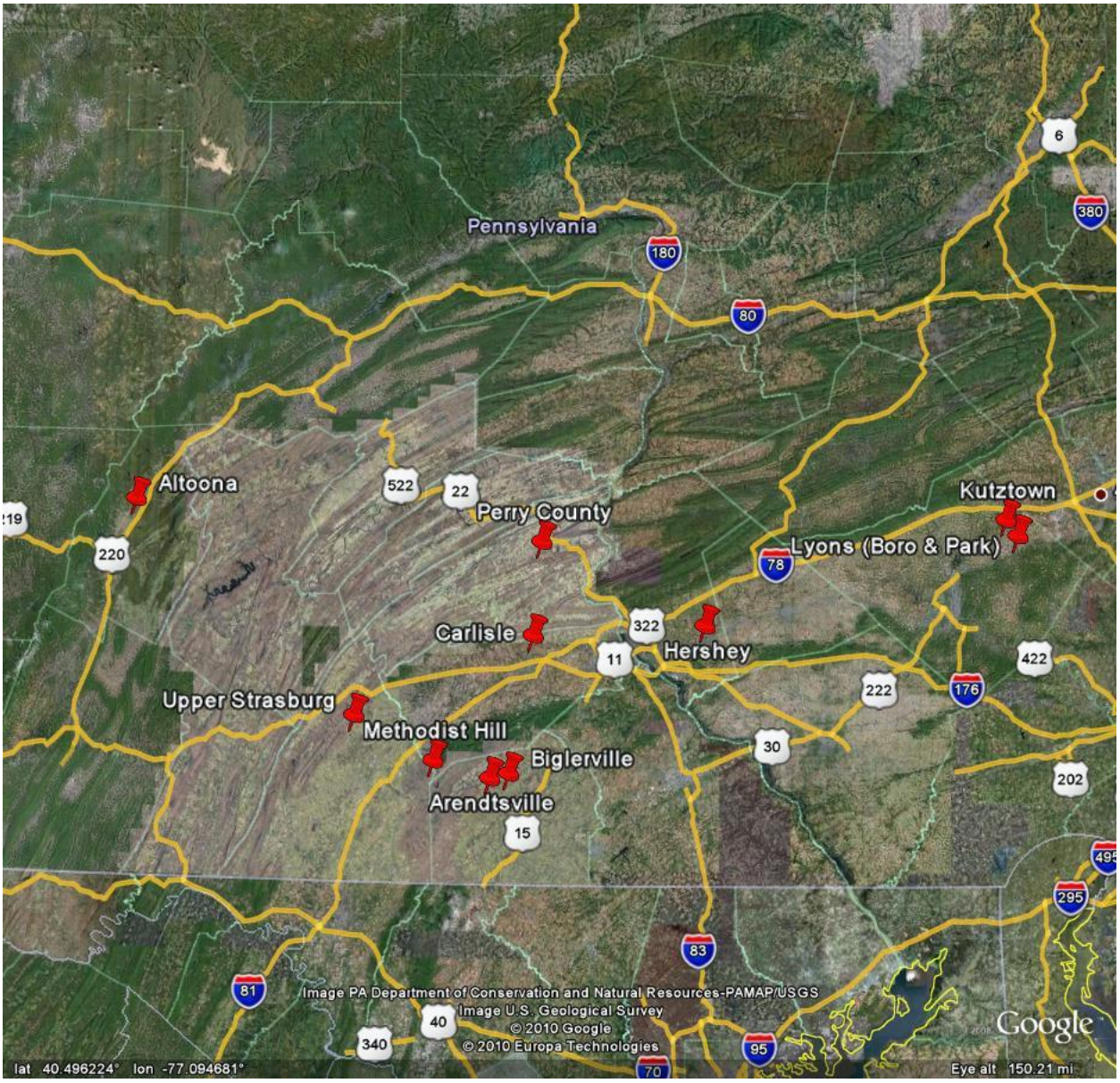


Table A12-1. Northcentral Region Non-Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
410	MONTOURSVILLE	42-081-0100	LYCOMING	899 Cherry Street Rear Parking Lot of PA State Police	41.25019 -76.9134
409	STATE COLLEGE	42-027-0100	CENTRE	Pennsylvania State University West of Big Hollow Road State College	40.81116 -77.8772
D09	MOSHANNON	42-033-4000	CLEARFIELD	Moshannon State Forest Elliott State Park North of Cessna	41.1175 -78.5261
D13	TIOGA COUNTY	42-117-4000	TIOGA	North of Gleason	41.64558 -76.9379

Table A12-2. Parameters Monitored by Site – Northcentral Region Non-Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
410	MONTOURSVILLE	X									X	
409	STATE COLLEGE		X	X					X	X	X	
D09	MOSHANNON										X	
D13	TIOGA COUNTY										X	

Northcentral Region. Bradford, Cameron, Centre, Clearfield, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Synder, Sullivan, Tioga, and Union Counties.

Figure A10. Map of the Northcentral Region Non-Air Basin Sites

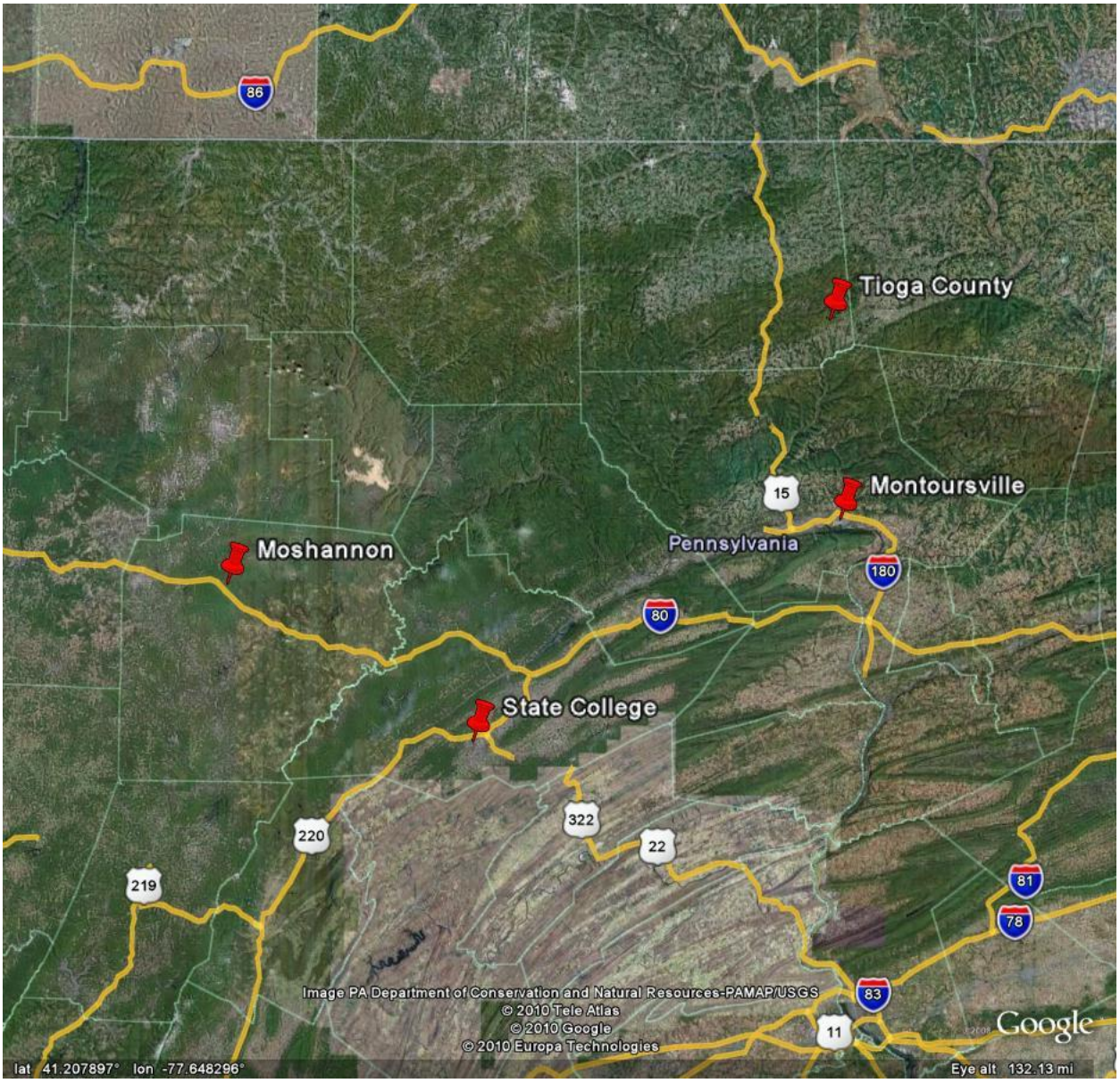


Table A13-1. Johnstown Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
J01	JOHNSTOWN	42-021-0011	CAMBRIA	Miller Auto Body Crafts Shop One Messenger Street	40.30994 -78.9154

Table A13-2. Parameters Monitored by Site – Johnstown Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
J01	JOHNSTOWN	X	X	X					X	X	X	X

Southwest Region. Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, and Westmoreland Counties.

Figure A11. Map of the Johnstown Air Basin Sites

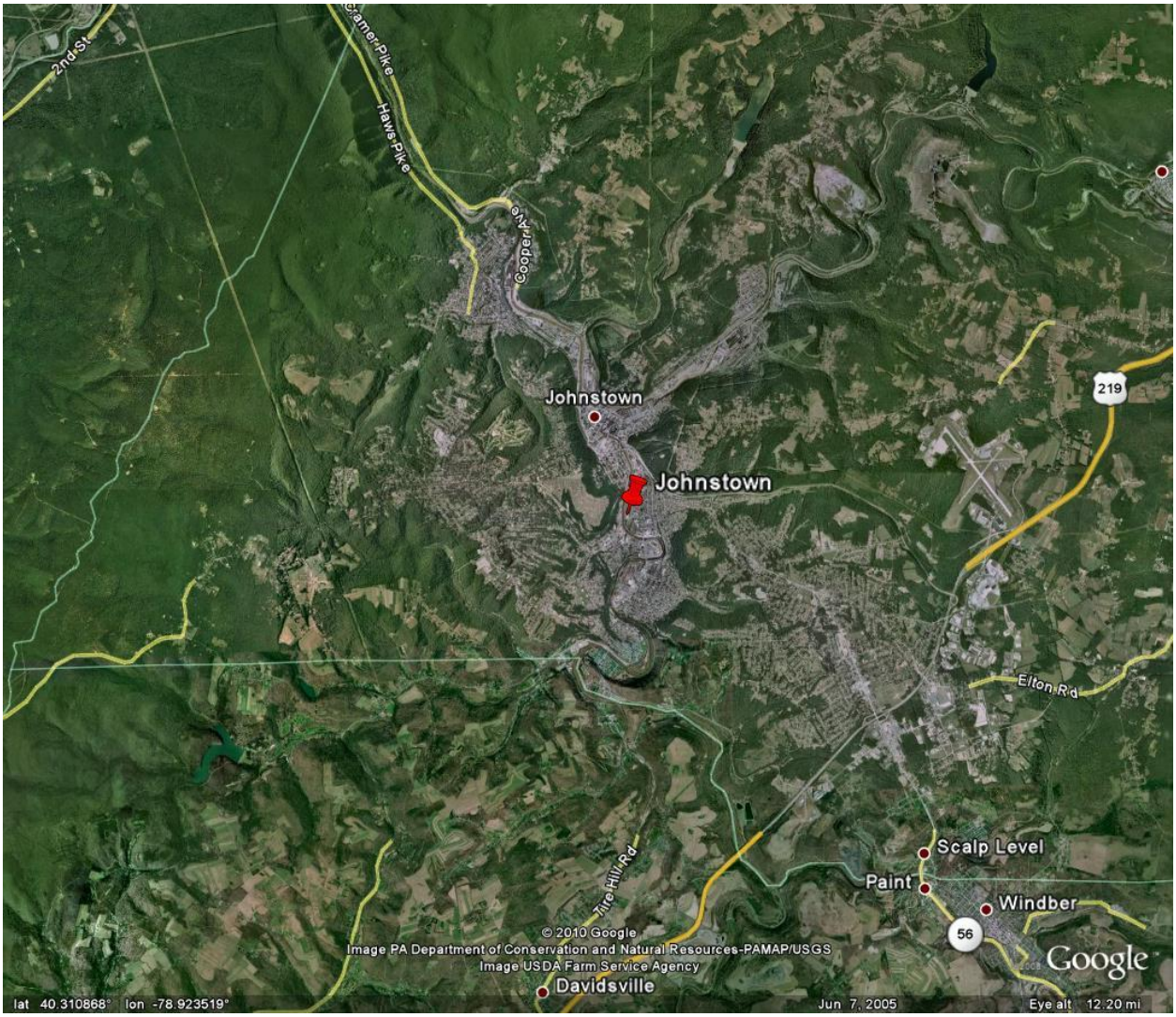


Table A14-1. Monongahela Valley Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
M01	CHARLEROI	42-125-0005	WASHINGTON	Borough Waste Treatment Plant Front Street	40.14658 -79.9022

Table A14-2. Parameters Monitored by Site – Monongahela Valley Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
M01	CHARLEROI	X	X						X	X	X	X

Southwest Region. Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, and Westmoreland Counties.

Figure A12. Map of the Monongahela Valley Air Basin Sites

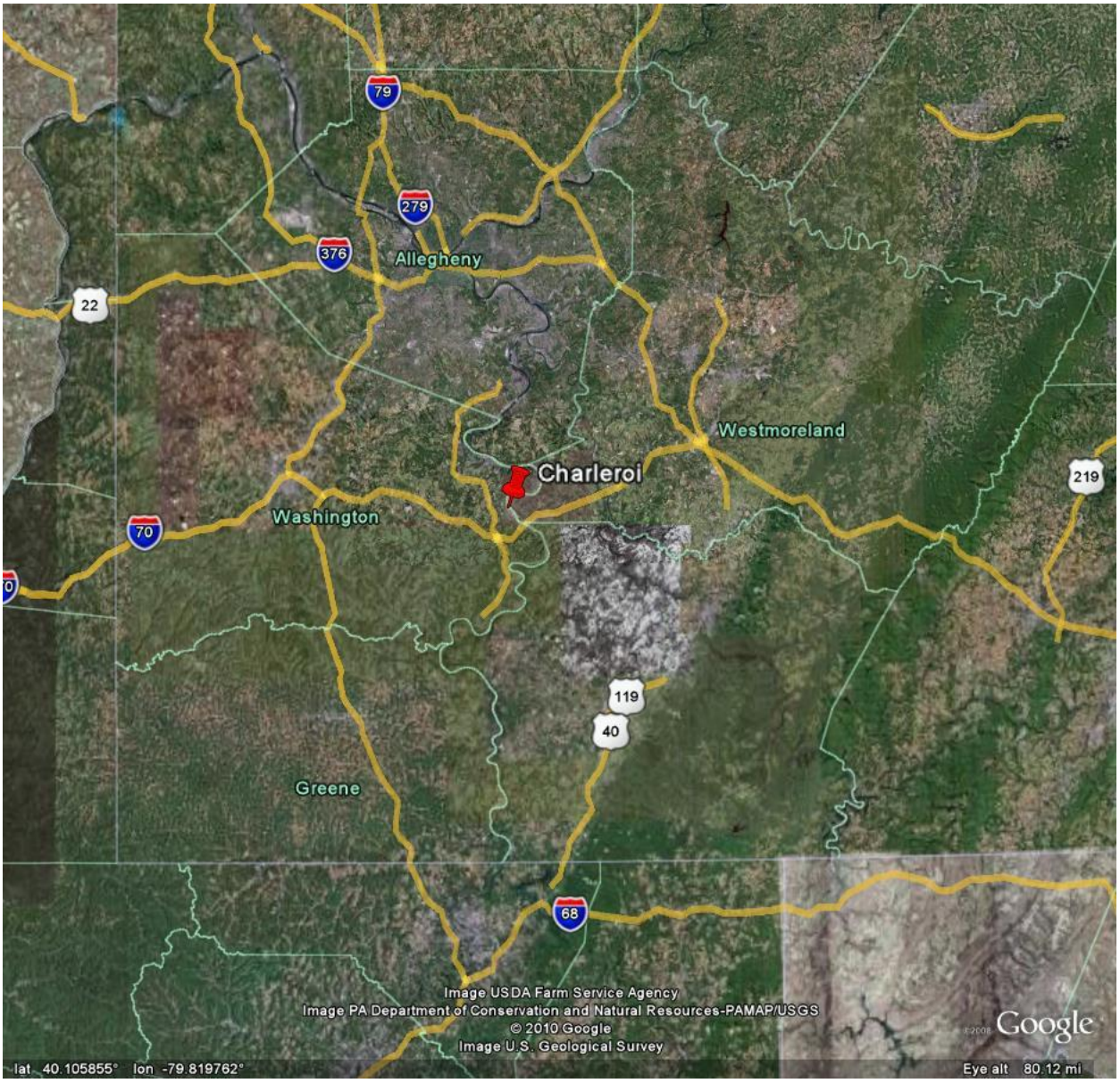


Table A15-1. Lower Beaver Valley Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
5140	POTTER TOWNSHIP	42-007-0006	BEAVER	206 Mowey Road	40.63893 -80.3656
B02	BEAVER VALLEY	42-007-0007	BEAVER	760 Beaver Valley Mall	40.67365 -80.3177
B05	VANPORT	42-007-0505	BEAVER	Vanport Water Works Tamaqui Drive	40.68486 -80.3229
B11	BEAVER FALLS	42-007-0014	BEAVER	Eighth Street & River Alley	40.74780 -80.3157
B23	HOOKSTOWN	42-007-0002	BEAVER	FAA Microwave Relay Tower Route 168 & Tomlinson Road	40.56305 -80.5044
B27	BRIGHTON TOWNSHIP	42-007-0005	BEAVER	1015 Sebring Road	40.68547 -80.3605

Table A15-2. Parameters Monitored by Site – Lower Beaver Valley Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
5140	POTTER TOWNSHIP				X		X					
B02	BEAVER VALLEY				X		X					
B05	VANPORT				X		X					
B11	BEAVER FALLS	X	X							X	X	
B23	HOOKSTOWN								X		X	
B27	BRIGHTON TOWNSHIP								X		X	

Southwest Region. Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, and Westmoreland Counties.

Figure A13. Map of the Lower Beaver Valley Air Basin Sites

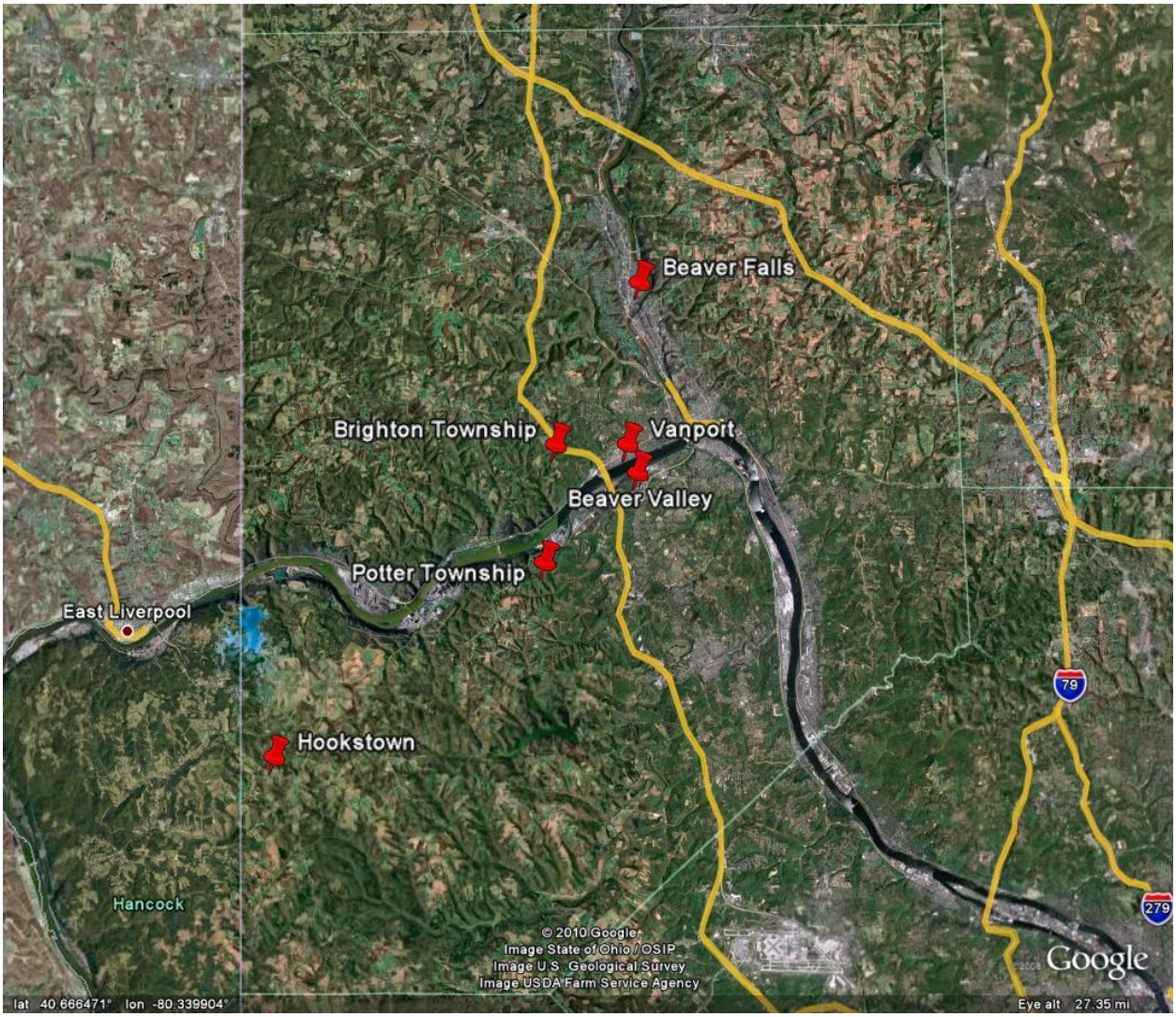


Table A16-1. Allegheny County Air Basin Site Location

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
D12	PITTSBURGH	42-003-0010	ALLEGHENY	Carnegie Science Center 1 Allegheny Road	40.44591 -80.0186

Table A16-2. Parameters Monitored by Site – Allegheny County Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE
D12	PITTSBURGH							X	X	X	X

Southwest Region. Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, and Westmoreland Counties.

Figure A14. Map of the Allegheny County Air Basin Site

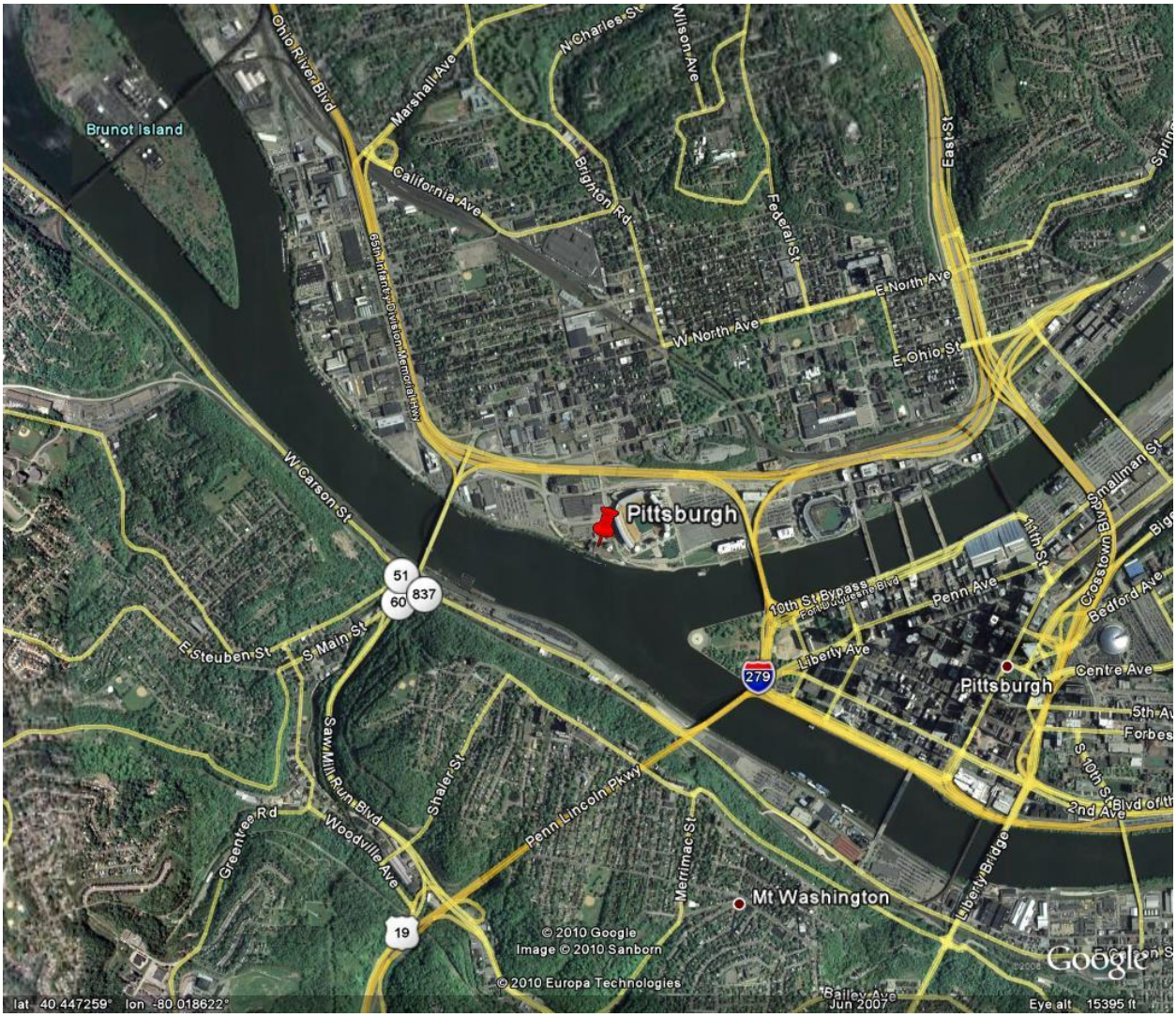


Table A17-1. Southwest Region Non-Air Basin Site Locations

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
504	FLORENCE	42-125-5001	WASHINGTON	Hillman State Park Kings Creek Road	40.44547 -80.4212
508	WASHINGTON	42-125-0200	WASHINGTON	McCarrell & Fayette Streets	40.17063 -80.2617
510	MURRYSVILLE	42-129-0006	WESTMORELAND	Murrysville Volunteer Fire Co. Old William Penn Hwy & Sardis Ave.	40.42902 -79.6972
512	KITTANNING	42-005-0001	ARMSTRONG	Glade Drive & Nolte Road PA State Police Barracks	40.814 -79.5646
513	GREENSBURG	42-129-0008	WESTMORELAND	Donohue Road PA Dept. of Transportation Bldg.	40.30438 -79.5060
514	HOLBROOK	42-059-0002	GREENE	Field 5 km southeast of Holbrook	39.81602 -80.2848
515	STRONGSTOWN	42-063-0004	INDIANA	Rte. 403 PA Dept. of Transportation Bldg.	40.5633 -78.9199
516	SHELOCTA	42-063-0005	INDIANA	182 South Ridge Drive	40.65251 -79.2927
5150	CONEMAUGH	42-129-0009	WESTMORELAND	Sugar Run – RT 711	40.65251 -79.2927

Table A17-2. Parameters Monitored by Site – Southwest Region Non-Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
504	FLORENCE		X	X					X		X	
508	WASHINGTON		X								X	
510	MURRYSVILLE										X	
512	KITTANNING		X								X	
513	GREENSBURG		X	X							X	
514	HOLBROOK								X		X	
515	STRONGSTOWN								X		X	
516	SHELOCTA				X		X					
5150	CONEMAUGH				X		X					

Southwest Region. Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, and Westmoreland Counties.

Figure A15. Map of the Southwest Region Non-Air Basin Sites

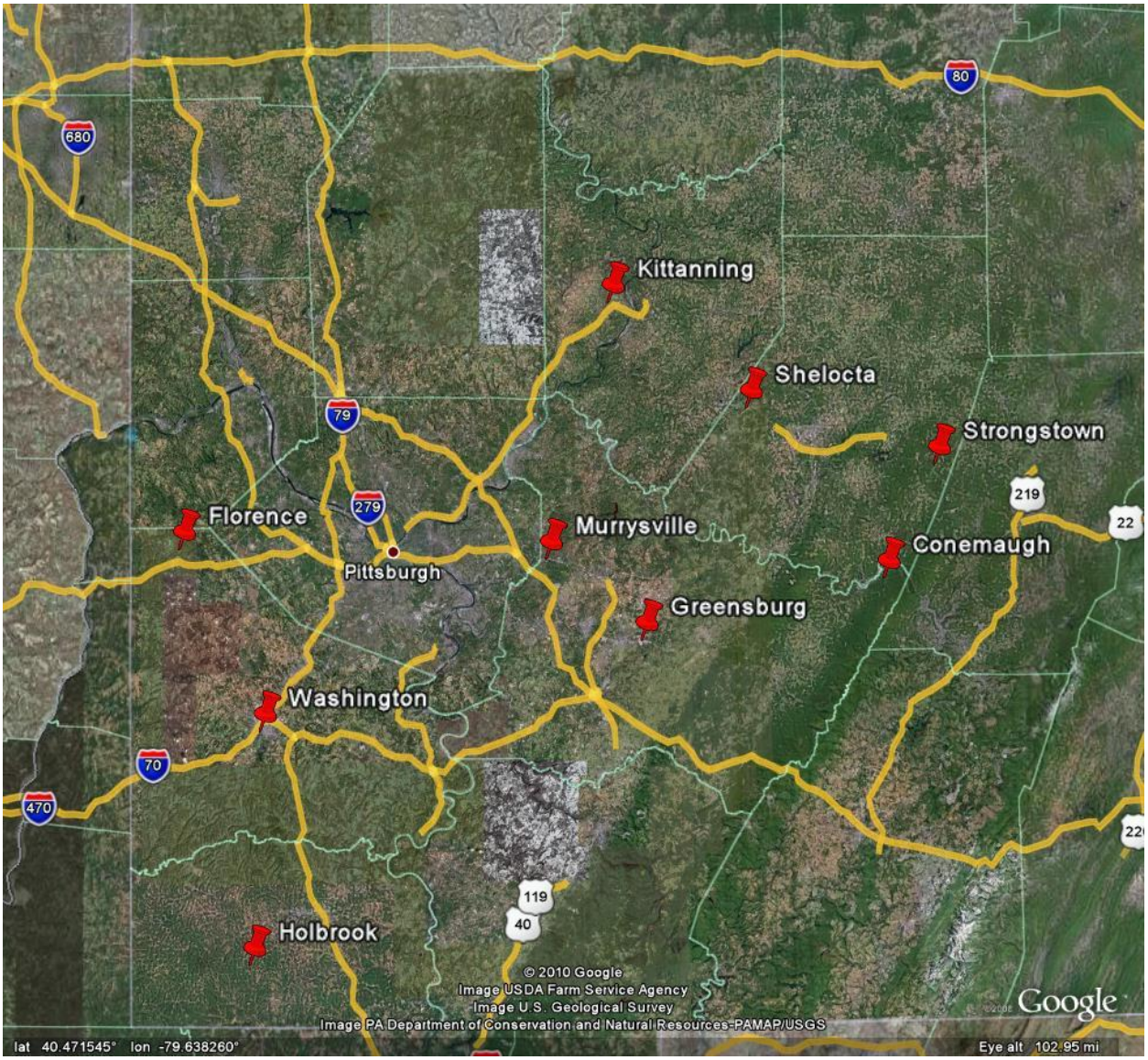


Table A18-1. Upper Beaver Valley Air Basin Site Location

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
B03	ELLWOOD CITY	42-073-0011	LAWRENCE	3 Fountain Avenue	40.86003 -80.2790
B21	NEW CASTLE	42-073-0015	LAWRENCE	Croton Avenue & Jefferson Street	40.99605 -80.3465

Table A18-2. Parameters Monitored by Site – Upper Beaver Valley Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
B03	ELLWOOD CITY				X		X					
B21	NEW CASTLE	X							X		X	X

Southwest Region. Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, and Westmoreland Counties.

Figure A16. Map of the Upper Beaver Valley Air Basin Sites

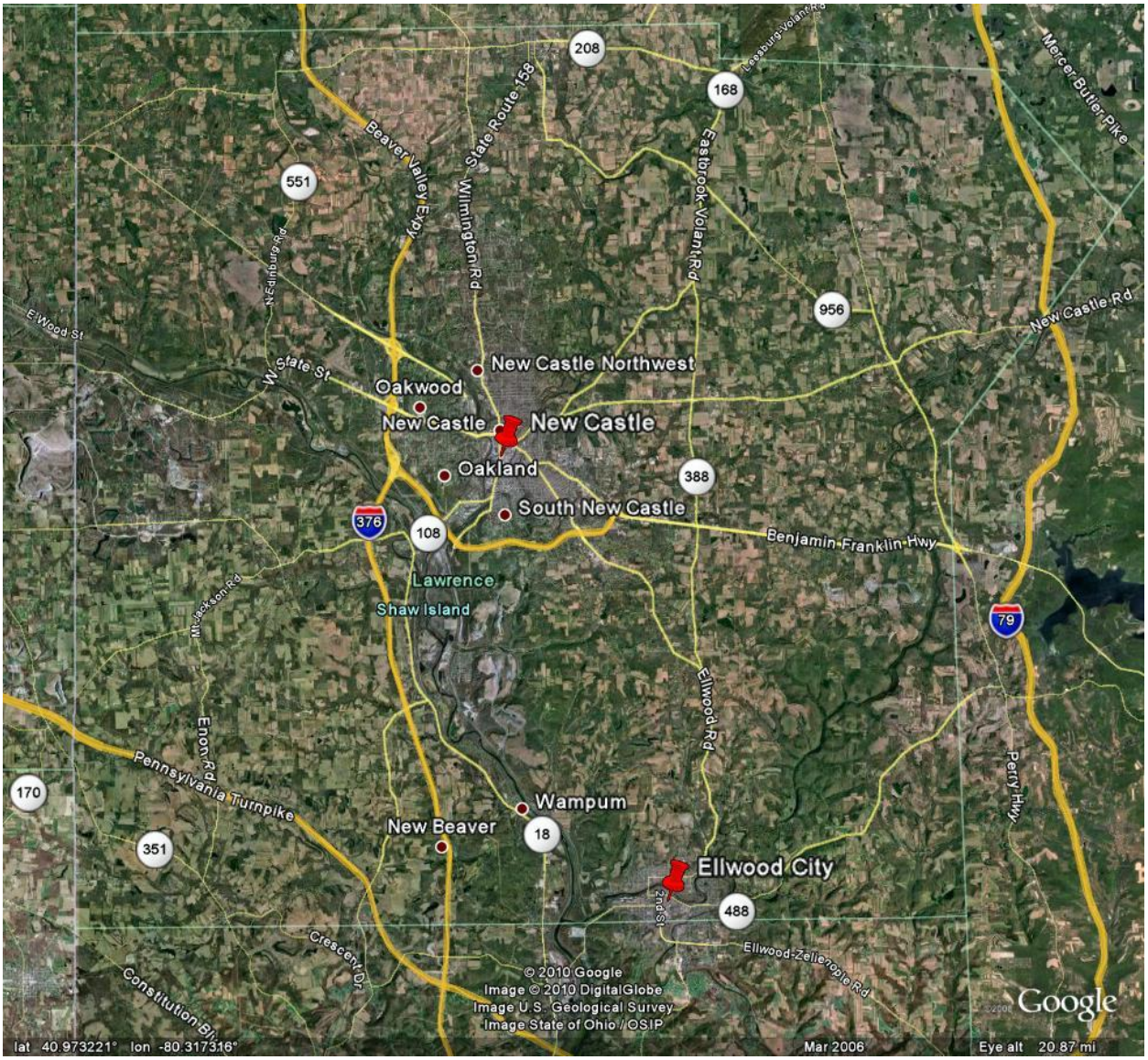


Table A19-1. Erie Air Basin Site Location

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
E10	ERIE	42-049-0003	ERIE	East 10th & Marne Streets	42.14197 -80.0386

Table A19-2. Parameters Monitored by Site – Erie Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
E10	ERIE	X	X	X					X	X	X	X

Northwest Region. Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, and Warren Counties.

Figure A17. Map of the Erie Air Basin Site

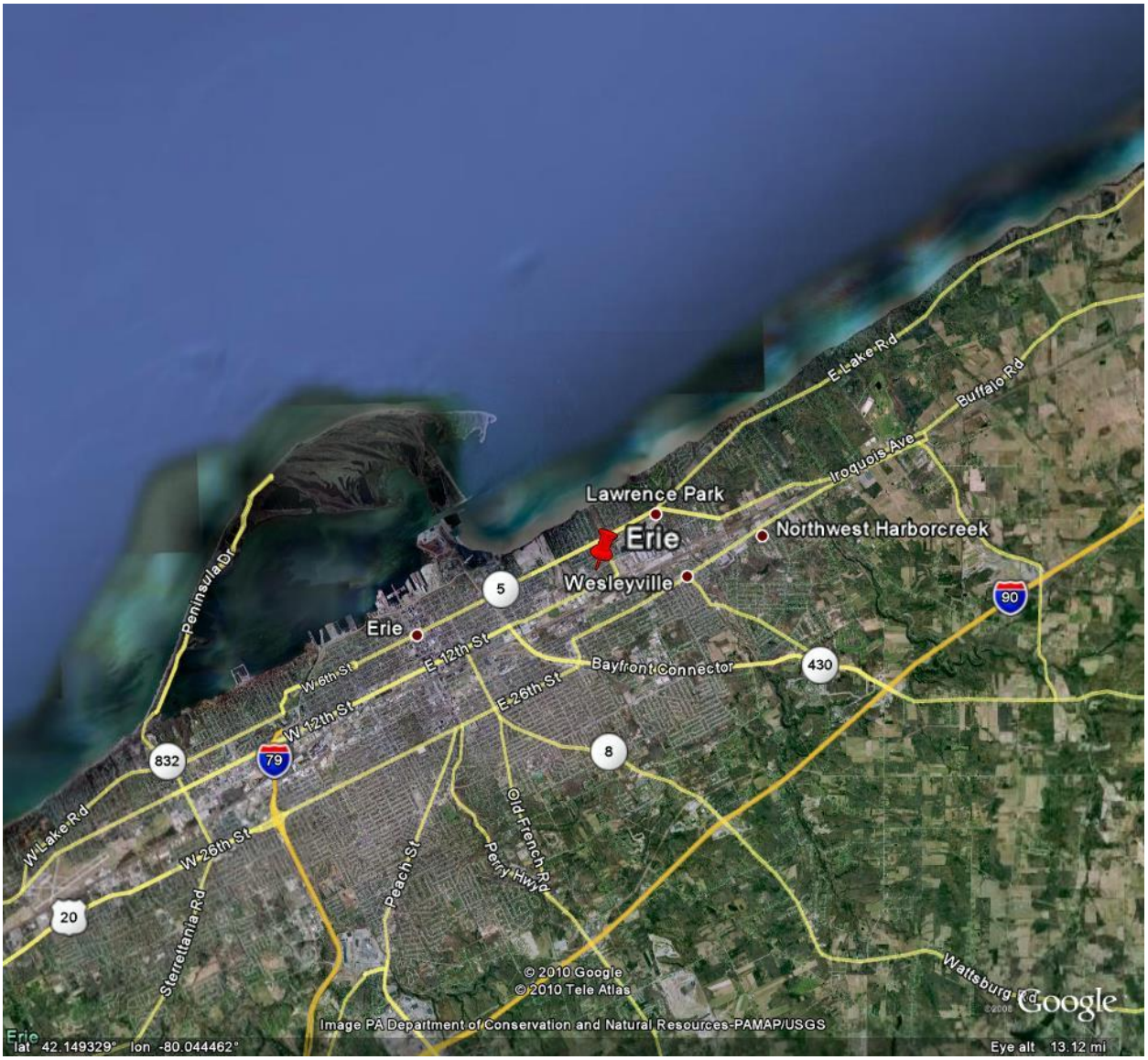


Table A20-1. Northwest Region Non-Air Basin Sites

PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
606	FARRELL	42-085-0100	MERCER	Farrell High School Field New Castle Road & Mercer Avenue	41.21405 -80.4834
612	WARREN (OVERLOOK)	42-123-0004	WARREN	Overlook Site near Stone Hill Road	41.84372 -79.1728

Table A20-2. Parameters Monitored by Site – Northwest Region Non-Air Basin

PA SITE CODE	SITE NAME	PM_{10}	$PM_{2.5}$	$PM_{2.5}$ SPEC	TSP	SULFATES	LEAD	NITRATES	SULFUR DIOXIDE	NITROGEN DIOXIDE	OZONE	CARBON MONOXIDE
606	FARRELL		X								X	
612	WARREN (OVERLOOK)								X			

Northwest Region. Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, and Warren Counties.

Figure A18. Map of Northwest Region Non-Air Basin Sites

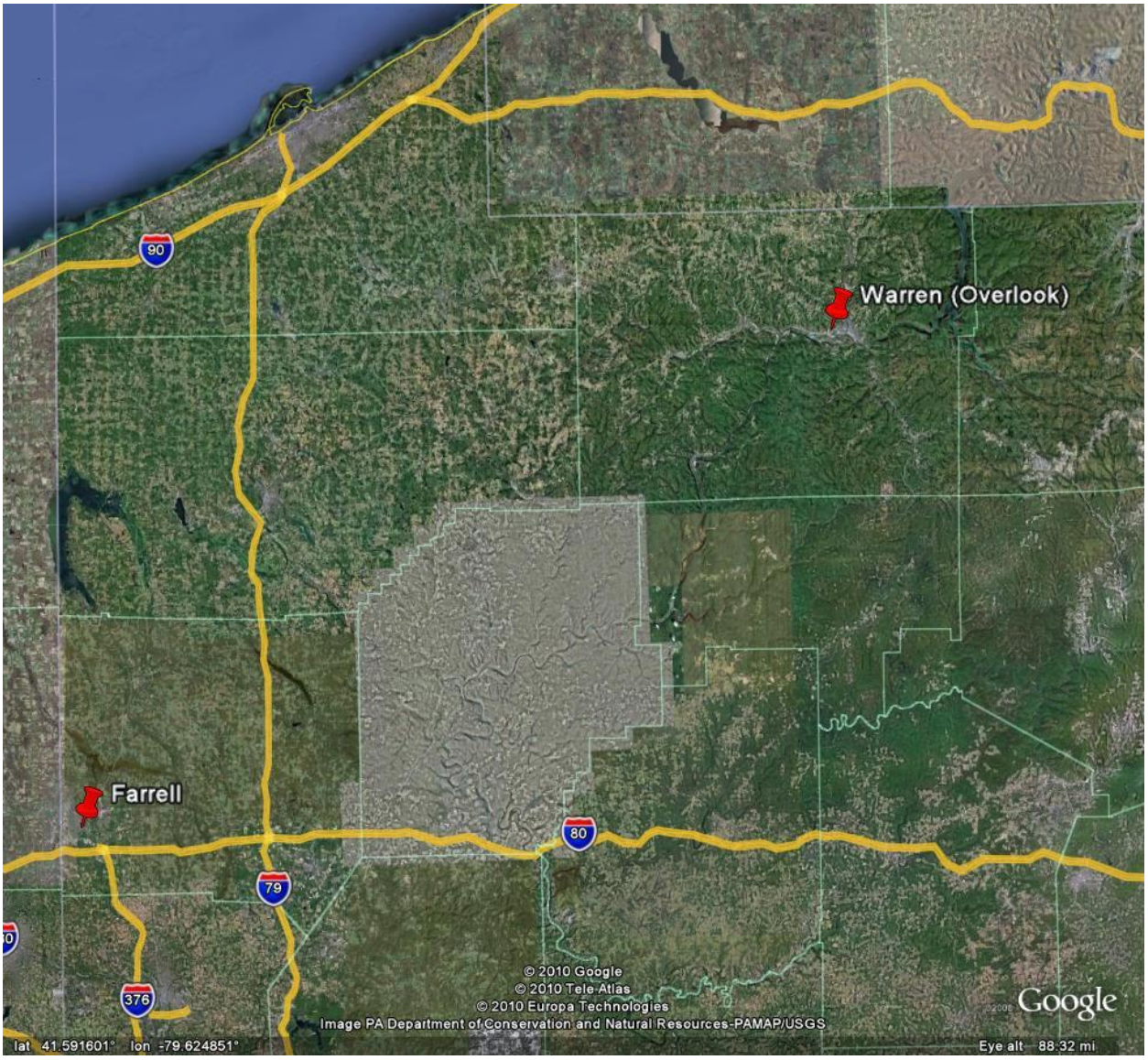


Table A21-1. Air Toxics Monitoring Sites

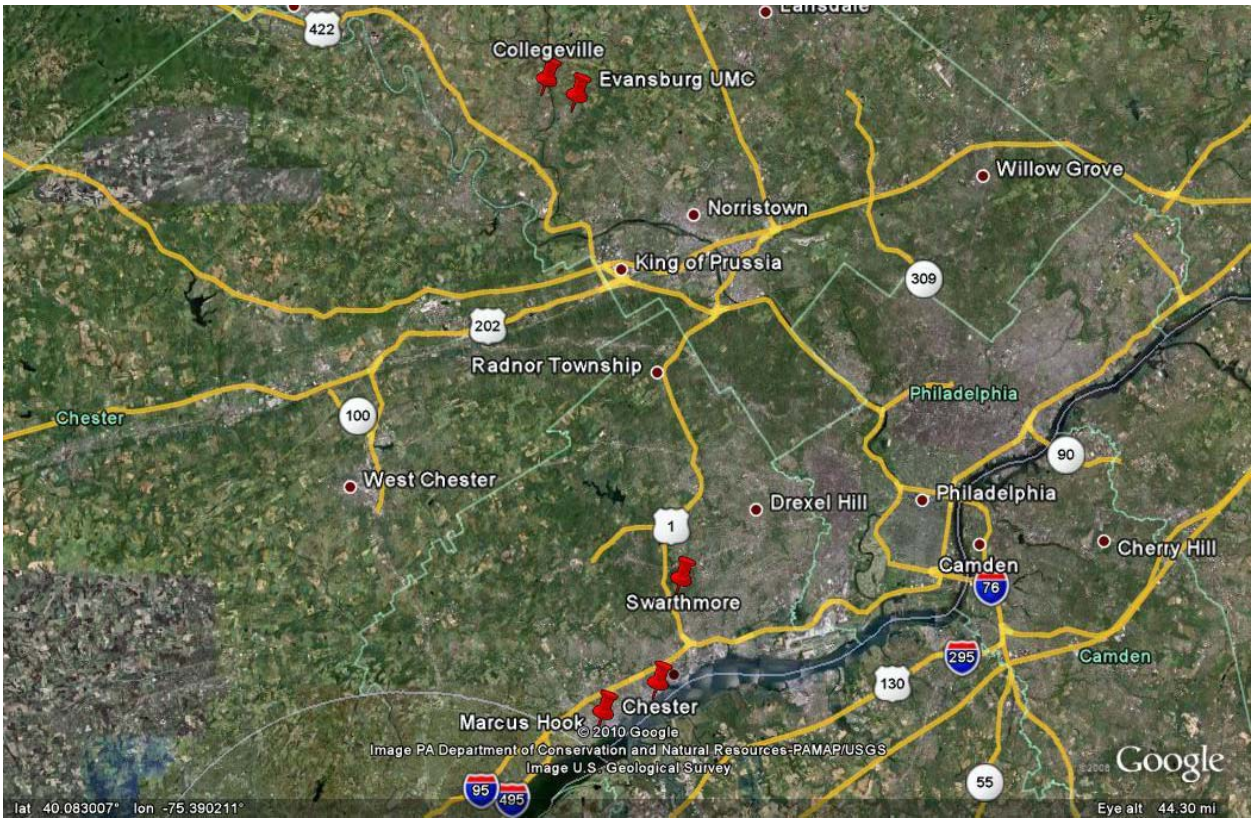
PA SITE CODE	SITE NAME	EPA-AIRS SITE CODE	COUNTY	STREET ADDRESS	LATITUDE LONGITUDE
31C	CHESTER	42-045-0002	DELAWARE	Front & Norris Sts	39.83519 -75.3721
31M	MARCUS HOOK	42-045-0109	DELAWARE	East 8th Ave & Church St	39.8178 -75.4142
31S	SWARTHMORE	42-045-0003	DELAWARE	500 College Ave	39.8969 -75.3539
31J	EVANSBURG UNITED METHODIST		MONTGOMERY	3871 Germantown Pike	40.18306 -75.43417
31U	COLLEGEVILLE		MONTGOMERY	Ursinus College	40.1925 -75.4575
311	KUTZTOWN		BERKS		40.51417 -75.78972
39A	ARENDTSVILLE	42-001-0001	ADAMS	Penn State Research Orchard	39.92330 -77.3081
L01/39L	LANCASTER	42-071-007	LANCASTER	Abraham Lincoln Junior High School	40.04686 -76.2834
R03	READING AIRPORT	42-011-0011	BERKS	Reading Airport 1059 Arnold Rd	40.38335 -75.9686
34B	LEWISBURG	42-119-0001	UNION	701 Moore Ave	40.9552 -76.8819
36E	PRESQUE ISLE	42-049-0004	ERIE	East Fisher Dr	42.1620 -80.1133
36S	SLIPPERY ROCK				41.06306 -80.03083

Table A21-2. Air Toxics Parameters Monitored by Site

PA SITE CODE	SITE NAME	VOCs	Carbonyl	TSP/Metals	Mercury
31C	CHESTER	X		X	
31M	MARCUS HOOK	X		X	
31S	SWARTHMORE	X		X	
31J	EVANSBURG UNITED METHODIST	X			
31U	COLLEGEVILLE	X			
311	KUTZTOWN	X		X	
39A	ARENDTSVILLE	X	X		
L01/39L	LANCASTER	X	X	X	X
R03	READING AIRPORT	X		X	
34B	LEWISBURG	X	X	X	
36E	PRESQUE ISLE	X		X	
36S	SLIPPERY ROCK	X		X	

Figure A19-1. Map of Air Toxics Sites in Pennsylvania

Figure A19-2. Map of Air Toxics Sites in Pennsylvania – Southeastern PA Detail



Appendix B — Pennsylvania Monitoring Network Description

Appendix B

Pennsylvania Monitoring Network Description

SITE NAME:	ALLENTOWN	*AIRS Site ID:*	420770004
COUNTY:	LEHIGH	*LATITUDE:*	40.61194
MUNICIPALITY:	ALLENTOWN	*LONGITUDE:*	-75.4326
MSA:	ALLENTOWN-BETHLEHEM-EASTON	*ADDRESS:*	STATE HOSPITAL REAR 1600 HANOVER AVE

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	ALTOONA	*AIRS Site ID:*	420130801
COUNTY:	BLAIR	*LATITUDE:*	40.53563
MUNICIPALITY:	ALTOONA	*LONGITUDE:*	-78.3703
MSA:	ALTOONA	*ADDRESS:*	2ND AVE & 7TH ST

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	ARENDTSVILLE	*AIRS Site ID:*	420010001
COUNTY:	ADAMS	*LATITUDE:*	39.92330
MUNICIPALITY:	ARENDTSVILLE	*LONGITUDE:*	-77.3081
MSA:	NOT IN A MSA	*ADDRESS:*	NARSTO SITE - ARENDTSVILLE

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SPM	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	General/Background
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Carbonyls**	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	DNPH - Coated Cartridges (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SPM	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	General/Background
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**PAMS**
Sensor Network Designation:	PAMS
Sensor Purpose Designation:	Air Toxics
Sample Frequency:	Continuous
Appendix A QA Assessment:*	No
Appendix C Monitoring Classification:	

Appendix C Monitoring Method:	
Monitoring Method Description:	Perkin Elmer Gas Chromatograph
Appendix D Design Criteria:*	No
Appendix D Scale:	
Appendix D Objectives:	
Appendix E Siting Criteria:*	No

Comments:

Sensor Type:	**Particulate Matter PM2.5**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Population Exposure
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	BAM

Appendix C Monitoring Method:	EQPM-0308-170
Monitoring Method Description:	Beta Attenuation
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Urban Scale
Appendix D Objectives:	General/Background
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**PM2.5 Speciation**
Sensor Network Designation:	STN
Sensor Purpose Designation:	Research/Scientific Monitoring
Sample Frequency:	Every 6th day
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Speciation

Appendix C Monitoring Method:	None
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Urban Scale
Appendix D Objectives:	General/Background
Appendix E Siting Criteria:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Volatile Organic Compound**	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	Canister (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	BEAVER FALLS	*AIRS Site ID:*	420070014
COUNTY:	BEAVER	*LATITUDE:*	40.74780
MUNICIPALITY:	BEAVER FALLS	*LONGITUDE:*	-80.3157
MSA:	PITTSBURGH	*ADDRESS:*	EIGHT STREET AND RIVER ALLEY

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Particulate Matter PM2.5**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Regulatory Compliance
Sample Frequency:	Daily
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Manual Equivalent Method
Appendix C Monitoring Method:	EQPM-0202-145
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Urban Scale
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Population Exposure
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	FDMS
Appendix C Monitoring Method:	None
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Urban Scale
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	BEAVER VALLEY	*AIRS Site ID:*	420070007
COUNTY:	BEAVER	*LATITUDE:*	40.67365
MUNICIPALITY:	CENTER TWP	*LONGITUDE:*	-80.3177
MSA:	PITTSBURGH	*ADDRESS:*	760 BEAVER VALLEY MALL

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	BETHLEHEM H2S	*AIRS Site ID:*	420958100
COUNTY:	NORTHAMPTON	*LATITUDE:*	40.607
MUNICIPALITY:	BETHLEHEM	*LONGITUDE:*	-75.303
MSA:	ALLENTOWN-BETHLEHEM-EASTON	*ADDRESS:*	2389 EASTON ROAD

Sensor Type:	Hydrogen Sulfide	*Appendix C Monitoring Method:*	NONE
Sensor Network Designation:	SPM	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Automated Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	BIGLERVILLE (PSU)	*AIRS Site ID:*	420010002
COUNTY:	ADAMS	*LATITUDE:*	39.93497
MUNICIPALITY:	BIGLERVILLE	*LONGITUDE:*	-77.2528
MSA:	NOT IN A MSA	*ADDRESS:*	UNIVERSITY DRIVE- PENN STATE RESEACH ORCHART

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SPM	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	General/Background
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**BRIGHTON TWP**	*AIRS Site ID:*	**420070005**
COUNTY:	**BEAVER**	*LATITUDE:*	**40.68547**
MUNICIPALITY:	**BRIGHTON TWP**	*LONGITUDE:*	**-80.3605**
MSA:	**PITTSBURGH**	*ADDRESS:*	**1015 SEBRING ROAD**

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	BRISTOL	*AIRS Site ID:*	420170012
COUNTY:	BUCKS	*LATITUDE:*	40.10738
MUNICIPALITY:	BRISTOL	*LONGITUDE:*	-74.8824
MSA:	PHILADELPHIA	*ADDRESS:*	ROCKVIEW LANE

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Particulate Matter PM2.5**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Regulatory Compliance
Sample Frequency:	Daily
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Manual Reference Method
Appendix C Monitoring Method:	RFPS-0498-118
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Regulatory Compliance
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Automated Equivalent Method
Appendix C Monitoring Method:	EQSA-0495-100
Monitoring Method Description:	UV Fluorescence
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**CARLISLE**	*AIRS Site ID:*	**420410101**
COUNTY:	**CUMBERLAND**	*LATITUDE:*	**40.24661**
MUNICIPALITY:	**CARLISLE**	*LONGITUDE:*	**-77.1837**
MSA:	**HARRISBURG-CARLISLE**	*ADDRESS:*	**IMPERIAL COURT**

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0308-170
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Beta Attenuation
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	BAM	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0202-145
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Daily	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	CHARLEROI	*AIRS Site ID:*	421250005
COUNTY:	WASHINGTON	*LATITUDE:*	40.14658
MUNICIPALITY:	CHARLEROI	*LONGITUDE:*	-79.9022
MSA:	PITTSBURGH	*ADDRESS:*	CHARLER01 WASTE TREATMENT PLANT

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	RFPS-1287-063
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0308-170
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Beta Attenuation
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	BAM	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**CHESTER**	*AIRS Site ID:*	**420450002**
COUNTY:	**DELAWARE**	*LATITUDE:*	**39.83519**
MUNICIPALITY:	**CHESTER**	*LONGITUDE:*	**-75.3721**
MSA:	**PHILADELPHIA**	*ADDRESS:*	**FRONT ST & NORRIS ST**

Sensor Type:	**Lead/TSP**	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

Sensor Type:	**Metals/TSP**	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	High Volume Sampler with Quartz Filter (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0308-170
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Beta Attenuation
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	BAM	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Sulfur Dioxide**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Regulatory Compliance
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Automated Equivalent Method
Appendix C Monitoring Method:	EQSA-0495-100
Monitoring Method Description:	UV Fluorescence
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Urban Scale
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**Volatile Organic Compound**
Sensor Network Designation:	Other
Sensor Purpose Designation:	Air Toxics
Sample Frequency:	1 in 6
Appendix A QA Assessment:*	No
Appendix C Monitoring Classification:	
Appendix C Monitoring Method:	
Monitoring Method Description:	Canister (24 Hour)
Appendix D Design Criteria:*	No
Appendix D Scale:	
Appendix D Objectives:	
Appendix E Siting Criteria:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	COLLEGEVILLE	*AIRS Site ID:*	420910005
COUNTY:	MONTGOMERY	*LATITUDE:*	40.1925
MUNICIPALITY:		*LONGITUDE:*	-75.4575
MSA:	PHILADELPHIA	*ADDRESS:*	URSINUS COLLEGE

Sensor Type:	Volatile Organic Compound	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	Canister (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	CONEMAUGH	*AIRS Site ID:*	421290009
COUNTY:	WESTMORELAND	*LATITUDE:*	40.39292
MUNICIPALITY:	ST.CLAIR TWP	*LONGITUDE:*	-79.0244
MSA:	PITTSBURGH	*ADDRESS:*	SUGAR RUN - RT 711

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	DURYEA	*AIRS Site ID:*	420790036
COUNTY:	LUZERNE	*LATITUDE:*	41.34886
MUNICIPALITY:	DURYEA TWP	*LONGITUDE:*	-75.7473
MSA:	SCRANTON-WILKES BARRE	*ADDRESS:*	401 YORK AVE

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**EASTON**	*AIRS Site ID:*	**420958000**
COUNTY:	**NORTHAMPTON**	*LATITUDE:*	**40.69230**
MUNICIPALITY:	**EASTON**	*LONGITUDE:*	**-75.2371**
MSA:	**ALLENTOWN-BETHLEHEM-EASTON**	*ADDRESS:*	**17TH AND SPRING GARDEN STREETS**

Sensor Type:	**Hydrogen Sulfide**	*Appendix C Monitoring Method:*	NONE
Sensor Network Designation:	SPM	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Max Ozone Concentration
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	ELLWOOD CITY	*AIRS Site ID:*	420730011
COUNTY:	LAWRENCE	*LATITUDE:*	40.86003
MUNICIPALITY:	ELLWOOD CITY BORO	*LONGITUDE:*	-80.2790
MSA:	NOT IN MSA	*ADDRESS:*	3 FOUNTAIN AVE

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**ERIE**	*AIRS Site ID:*	**420490003**
COUNTY:	**ERIE**	*LATITUDE:*	**42.14197**
MUNICIPALITY:	**ERIE**	*LONGITUDE:*	**-80.0386**
MSA:	**ERIE**	*ADDRESS:*	**10TH AND MARNE STREETS**

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0308-170
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Beta Attenuation
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	BAM	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**PM2.5 Speciation**	*Appendix C Monitoring Method:*	None
Sensor Network Designation:	STN	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Research/Scientific Monitoring	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Speciation	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	EVANSBURG UNITED METHODIST	*AIRS Site ID:*	420910016
COUNTY:	MONTGOMERY	*LATITUDE:*	40.18305
MUNICIPALITY:		*LONGITUDE:*	-75.4341
MSA:	PHILADELPHIA	*ADDRESS:*	3871 GERMANTOWN PIKE

Sensor Type:	Volatile Organic Compound	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	Canister (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**FARRELL**	*AIRS Site ID:*	**420850100**
COUNTY:	**MERCER**	*LATITUDE:*	**41.21405**
MUNICIPALITY:	**FARRELL**	*LONGITUDE:*	**-80.4834**
MSA:	**YOUNGSTOWN-WARREN-BOARDMAN, OH-P**	*ADDRESS:*	**PA518 (NEW CASTLE ROAD) & PA418**

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Highest Concentration
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0202-145
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Daily	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Highest Concentration
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**FLORENCE**	*AIRS Site ID:*	**421255001**
COUNTY:	**WASHINGTON**	*LATITUDE:*	**40.44547**
MUNICIPALITY:	**FLORENCE**	*LONGITUDE:*	**-80.4212**
MSA:	**PITTSBURGH**	*ADDRESS:*	**HILLMAN STATE PARK - KINGS CREEK ROAD**

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0308-170
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Beta Attenuation
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	BAM	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**PM2.5 Speciation**	*Appendix C Monitoring Method:*	None
Sensor Network Designation:	STN	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Research/Scientific Monitoring	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	Speciation	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**FREEMANSBURG**	*AIRS Site ID:*	**420950025**
COUNTY:	**NORTHAMPTON**	*LATITUDE:*	**40.62847**
MUNICIPALITY:	**FREEMANSBURG**	*LONGITUDE:*	**-75.3415**
MSA:	**ALLENTOWN-BETHLEHEM-EASTON**	*ADDRESS:*	**WASHINGTON & CAMBRIA STS. FREEMANSBURG**

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Particulate Matter PM2.5**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Population Exposure
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	BAM
Appendix C Monitoring Method:	EQPM-0308-170
Monitoring Method Description:	Beta Attenuation
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**PM2.5 Speciation**
Sensor Network Designation:	STN
Sensor Purpose Designation:	Research/Scientific Monitoring
Sample Frequency:	Every 6th day
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Speciation
Appendix C Monitoring Method:	None
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**GREENSBURG**	*AIRS Site ID:*	**421290008**
COUNTY:	**WESTMORELAND**	*LATITUDE:*	**40.30438**
MUNICIPALITY:	**GREENSBURG**	*LONGITUDE:*	**-79.5060**
MSA:	**PITTSBURGH**	*ADDRESS:*	**DONOHOE ROAD - PENN DOT MAINT DIST BLDG**

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0308-170
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Beta Attenuation
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	BAM	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**PM2.5 Speciation**	*Appendix C Monitoring Method:*	None
Sensor Network Designation:	STN	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Research/Scientific Monitoring	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Speciation	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	HARRISBURG	*AIRS Site ID:*	420430401
COUNTY:	DAUPHIN	*LATITUDE:*	40.24508
MUNICIPALITY:	HARRISBURG	*LONGITUDE:*	-76.8447
MSA:	HARRISBURG-CARLISLE	*ADDRESS:*	1833 UPS DRIVE HARRISBURG PA

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0308-170
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Beta Attenuation
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	BAM	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**PM2.5 Speciation**	*Appendix C Monitoring Method:*	None
Sensor Network Designation:	STN	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Research/Scientific Monitoring	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Speciation	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	HERSHEY	*AIRS Site ID:*	420431100
COUNTY:	DAUPHIN	*LATITUDE:*	40.27241
MUNICIPALITY:	HERSHEY	*LONGITUDE:*	-76.6814
MSA:	HARRISBURG-CARLISLE	*ADDRESS:*	SIPE AVE & MAE STREET

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Max Ozone Concentration
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	HOLBROOK	*AIRS Site ID:*	420590002
COUNTY:	GREENE	*LATITUDE:*	39.81602
MUNICIPALITY:	HOLBROOK	*LONGITUDE:*	-80.2848
MSA:	NOT IN A MSA	*ADDRESS:*	4.8 KM SE OF HOLBROOK

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SPM	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**HOOKSTOWN**	*AIRS Site ID:*	**420070002**
COUNTY:	**BEAVER**	*LATITUDE:*	**40.56305**
MUNICIPALITY:	**HOOKSTOWN**	*LONGITUDE:*	**-80.5044**
MSA:	**PITTSBURGH**	*ADDRESS:*	**ROUTE 168 & TOMLINSON ROAD**

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	JOHNSTOWN	*AIRS Site ID:*	420210011
COUNTY:	CAMBRIA	*LATITUDE:*	40.30994
MUNICIPALITY:	JOHNSTOWN	*LONGITUDE:*	-78.9154
MSA:	JOHNSTOWN	*ADDRESS:*	MILLER AUTO SHOP 1 MESSENGER ST

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Particulate Matter PM10**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Regulatory Compliance
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	TEOM Automated Equivalent

Appendix C Monitoring Method:	EQPM-1090-079
Monitoring Method Description:	TEOM Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Regulatory Compliance
Sample Frequency:	Daily
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Manual Reference Method

Appendix C Monitoring Method:	RFPS-0498-118
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Population Exposure
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	BAM

Appendix C Monitoring Method:	EQPM-0308-170
Monitoring Method Description:	Beta Attenuation
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**PM2.5 Speciation**
Sensor Network Designation:	STN
Sensor Purpose Designation:	Research/Scientific Monitoring
Sample Frequency:	Every 6th day
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Speciation
Appendix C Monitoring Method:	None
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Regulatory Compliance
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Automated Equivalent Method
Appendix C Monitoring Method:	EQSA-0495-100
Monitoring Method Description:	UV Fluorescence
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	KITTANNING	*AIRS Site ID:*	420050001
COUNTY:	ARMSTRONG	*LATITUDE:*	40.814
MUNICIPALITY:	KITTANNING	*LONGITUDE:*	-79.5646
MSA:	PITTSBURGH	*ADDRESS:*	GLADE DR. & NOLTE RD. KITTANNING

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Extreme Downwind
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0308-170
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Beta Attenuation
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Extreme Downwind
Appendix C Monitoring Classification:	BAM	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	KUTZTOWN	*AIRS Site ID:*	420110006
COUNTY:	BERKS	*LATITUDE:*	40.51408
MUNICIPALITY:	KUTZTOWN	*LONGITUDE:*	-75.7897
MSA:	READING	*ADDRESS:*	KUTZTOWN UNIVERSITY CAMPUS

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Extreme Downwind
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	LANCASTER	*AIRS Site ID:*	420710007
COUNTY:	LANCASTER	*LATITUDE:*	40.04686
MUNICIPALITY:	LANCASTER	*LONGITUDE:*	-76.2834
MSA:	LANCASTER	*ADDRESS:*	ABRAHAM LINCOLN JR HIGH GROFFTOWN RD

Sensor Type:	Carbonyls	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	DNPH - Coated Cartridges (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

Sensor Type:	Mercury	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	Tektron Vapor Analyzer
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

Sensor Type:	Metals/TSP	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	High Volume Sampler with Quartz Filter (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Particulate Matter PM2.5**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Population Exposure
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	FDMS

Appendix C Monitoring Method:	None
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Regulatory Compliance
Sample Frequency:	Daily
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Manual Reference Method

Appendix C Monitoring Method:	RFPS-0498-118
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**PM2.5 Speciation**
Sensor Network Designation:	STN
Sensor Purpose Designation:	Research/Scientific Monitoring
Sample Frequency:	Every 6th day
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Speciation

Appendix C Monitoring Method:	None
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Volatile Organic Compound**	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	Canister (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	LANCASTER DOWNWIND	*AIRS Site ID:*	420710012
COUNTY:	LANCASTER	*LATITUDE:*	40.04383
MUNICIPALITY:	LANCASTER	*LONGITUDE:*	-76.1124
MSA:	LANCASTER	*ADDRESS:*	3445 W. NEWPORT ROAD

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Extreme Downwind
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	LAURELDALE NORTH	*AIRS Site ID:*	420110020
COUNTY:	BERKS	*LATITUDE:*	40.38598
MUNICIPALITY:	MUHLENBERG TWP	*LONGITUDE:*	-75.9128
MSA:	READING	*ADDRESS:*	3139 KUTZTOWN ROAD

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	LAURELDALE SOUTH	*AIRS Site ID:*	420111717
COUNTY:	BERKS	*LATITUDE:*	40.37730
MUNICIPALITY:	LAURELDALE SOUTH	*LONGITUDE:*	-75.9145
MSA:	READING	*ADDRESS:*	SPRING VALLEY ROAD

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	LEHIGH VALLEY	*AIRS Site ID:*	420950027
COUNTY:	NORTHAMPTON	*LATITUDE:*	40.64586
MUNICIPALITY:	BETHLEHEM	*LONGITUDE:*	-75.4043
MSA:	ALLENTOWN-BETHLEHEM-EASTON	*ADDRESS:*	2604 Schoenersville Road

Sensor Type:	Particulate Matter PM2.5	*Appendix C Monitoring Method:*	RFPS-0498-118
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Daily	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Manual Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	LEWISBURG	*AIRS Site ID:*	421190001
COUNTY:	UNION	*LATITUDE:*	40.9552
MUNICIPALITY:	LEWISBURG	*LONGITUDE:*	-76.8819
MSA:	NOT IN MSA	*ADDRESS:*	701 MOORE AVE

Sensor Type:	Carbonyls	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	DNPH - Coated Cartridges (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

Sensor Type:	Metals/TSP	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	High Volume Sampler with Quartz Filter (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

Sensor Type:	Volatile Organic Compound	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	Canister (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	LYONS BORO	*AIRS Site ID:*	420110021
COUNTY:	BERKS	*LATITUDE:*	40.47707
MUNICIPALITY:	LYONS BORO	*LONGITUDE:*	-75.7569
MSA:	READING	*ADDRESS:*	KEMP ST.

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	LYONS PARK	*AIRS Site ID:*	420110022
COUNTY:	BERKS	*LATITUDE:*	40.47831
MUNICIPALITY:	LYONS BORO	*LONGITUDE:*	-75.7539
MSA:	READING	*ADDRESS:*	PARK AVE.

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	MARCUS HOOK	*AIRS Site ID:*	420450109
COUNTY:	DELAWARE	*LATITUDE:*	39.8178
MUNICIPALITY:	MARCUS HOOK	*LONGITUDE:*	-75.4142
MSA:	PHILADELPHIA	*ADDRESS:*	EAST 8TH AVE & CHURCH ST.

Sensor Type:	Metals/TSP	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	High Volume Sampler with Quartz Filter (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

Sensor Type:	Volatile Organic Compound	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	Canister (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	METHODIST HILL	*AIRS Site ID:*	420550001
COUNTY:	FRANKLIN	*LATITUDE:*	39.96072
MUNICIPALITY:	SOUTHAMPTON TWP	*LONGITUDE:*	-77.4755
MSA:	NOT IN A MSA	*ADDRESS:*	FOREST ROAD - METHODIST HILL

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**MONTOURSVILLE**	***AIRS Site ID:***	**420810100**
COUNTY:	**LYCOMING**	*LATITUDE:*	**41.25019**
MUNICIPALITY:	**MONTOURSVILLE**	*LONGITUDE:*	**-76.9134**
MSA:	**WILLIAMSPORT**	*ADDRESS:*	**899 CHERRY STREET**

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Max Ozone Concentration
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	RFPS-1287-063
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Manual Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	MOSHANNON (PSU)	*AIRS Site ID:*	420334000
COUNTY:	CLEARFIELD	*LATITUDE:*	41.1175
MUNICIPALITY:	ELLIOTT STATE PARK	*LONGITUDE:*	-78.5261
MSA:	NOT IN A MSA	*ADDRESS:*	LOCATED NEAR S.B. ELLIOTT STATE PARK

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	General/Background
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	MURRYSVILLE	*AIRS Site ID:*	421290006
COUNTY:	WESTMORELAND	*LATITUDE:*	40.42902
MUNICIPALITY:	MURRYSVILLE	*LONGITUDE:*	-79.6972
MSA:	PITTSBURGH	*ADDRESS:*	OLD WILLIAM PENN HWY & SARDIS AVE

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Max Ozone Concentration
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	NANTICOKE	*AIRS Site ID:*	420791100
COUNTY:	LUZERNE	*LATITUDE:*	41.20919
MUNICIPALITY:	NANTICOKE	*LONGITUDE:*	-76.0035
MSA:	SCRANTON-WILKES BARRE	*ADDRESS:*	255 LOWER BROADWAY(NEXT TO LEON&EDDY'S)

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	General/Background
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	NAZARETH	*AIRS Site ID:*	420951000
COUNTY:	NORTHAMPTON	*LATITUDE:*	40.73473
MUNICIPALITY:	NAZARETH	*LONGITUDE:*	-75.3131
MSA:	ALLENTOWN-BETHLEHEM-EASTON	*ADDRESS:*	SOUTH GREEN & DELAWARE

Sensor Type:	Particulate Matter PM10	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SPM	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	NEW CASTLE	*AIRS Site ID:*	420730015
COUNTY:	LAWRENCE	*LATITUDE:*	40.99605
MUNICIPALITY:	NEW CASTLE	*LONGITUDE:*	-80.3465
MSA:	NOT IN MSA	*ADDRESS:*	CROTON ST & JEFFERSON ST.

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**NEW GARDEN**	*AIRS Site ID:*	**420290100**
COUNTY:	**CHESTER**	*LATITUDE:*	**39.83458**
MUNICIPALITY:	**NEW GARDEN**	*LONGITUDE:*	**-75.7680**
MSA:	**PHILADELPHIA**	*ADDRESS:*	**NEW GARDEN AIRPORT - TOUGHKENAMON**

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0308-170
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Beta Attenuation
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	BAM	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**PM2.5 Speciation**	*Appendix C Monitoring Method:*	None
Sensor Network Designation:	STN	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Research/Scientific Monitoring	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Regional Transport
Appendix C Monitoring Classification:	Speciation	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**NORRISTOWN**	*AIRS Site ID:*	**420910013**
COUNTY:	**MONTGOMERY**	*LATITUDE:*	**40.11327**
MUNICIPALITY:	**NORRISTOWN**	*LONGITUDE:*	**-75.3086**
MSA:	**PHILADELPHIA**	*ADDRESS:*	**STATE ARMORY - 1046 BELVOIR RD**

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	RFPS-0498-118
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Daily	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Manual Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	None
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	FDMS	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	PECKVILLE	*AIRS Site ID:*	420690101
COUNTY:	LACKAWANNA	*LATITUDE:*	41.47908
MUNICIPALITY:	PECKVILLE	*LONGITUDE:*	-75.5781
MSA:	SCRANTON-WILKES BARRE	*ADDRESS:*	WILSON FIRE CO. ERIE & PLEASANT

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Max Ozone Concentration
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	PERRY COUNTY	*AIRS Site ID:*	420990301
COUNTY:	PERRY	*LATITUDE:*	40.46
MUNICIPALITY:	NEWPORT	*LONGITUDE:*	-77.1687
MSA:	HARRISBURG-CARLISLE	*ADDRESS:*	720 GILL HILL ROAD, LITTLE BUFFALO STATE PARK

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	General/Background
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	General/Background
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	General/Background
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	PITTSBURGH	*AIRS Site ID:*	420030010
COUNTY:	ALLEGHENY	*LATITUDE:*	40.44591
MUNICIPALITY:	PITTSBURGH	*LONGITUDE:*	-80.0186
MSA:	PITTSBURGH	*ADDRESS:*	CARNEGIE SCIENCE CENTER - 1 ALLEGHENY RD

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SPM	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SPM	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SPM	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SPM	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	POCONO	*AIRS Site ID:*	420890002
COUNTY:	MONROE	*LATITUDE:*	41.08306
MUNICIPALITY:	SWIFTWATER	*LONGITUDE:*	-75.3232
MSA:	NOT IN A MSA	*ADDRESS:*	DEP/DCNR Pocono District Office

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	POTTER TOWNSHIP	*AIRS Site ID:*	420070006
COUNTY:	BEAVER	*LATITUDE:*	40.63893
MUNICIPALITY:	POTTER TWP	*LONGITUDE:*	-80.3656
MSA:	PITTSBURGH	*ADDRESS:*	206 MOWEY RD

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	PRESQUE ISLE	*AIRS Site ID:*	420490004
COUNTY:	ERIE	*LATITUDE:*	42.1620
MUNICIPALITY:		*LONGITUDE:*	-80.1133
MSA:	ERIE	*ADDRESS:*	EAST FISHER DR.

Sensor Type:	Metals/TSP	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	High Volume Sampler with Quartz Filter (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

Sensor Type:	Volatile Organic Compound	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	Canister (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	READING AIRPORT	*AIRS Site ID:*	420110011
COUNTY:	BERKS	*LATITUDE:*	40.38335
MUNICIPALITY:	READING	*LONGITUDE:*	-75.9686
MSA:	READING	*ADDRESS:*	1059 ARNOLD ROAD

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Metals/TSP**	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	High Volume Sampler with Quartz Filter (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	None
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	FDMS	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Particulate Matter PM2.5**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Regulatory Compliance
Sample Frequency:	Daily
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Manual Reference Method
Appendix C Monitoring Method:	RFPS-0498-118
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**PM2.5 Speciation**
Sensor Network Designation:	STN
Sensor Purpose Designation:	Research/Scientific Monitoring
Sample Frequency:	Every 6th day
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Speciation
Appendix C Monitoring Method:	None
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Population Exposure
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Automated Equivalent Method
Appendix C Monitoring Method:	EQSA-0495-100
Monitoring Method Description:	UV Fluorescence
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Volatile Organic Compound**	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	Canister (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	RIDLEY PARK	*AIRS Site ID:*	420450004
COUNTY:	DELAWARE	*LATITUDE:*	39.86292
MUNICIPALITY:		*LONGITUDE:*	-75.3256
MSA:	PHILADELPHIA	*ADDRESS:*	INDUSTRIAL HIGHWAY (RT291)

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	SCRANTON	*AIRS Site ID:*	420692006
COUNTY:	LACKAWANNA	*LATITUDE:*	41.44286
MUNICIPALITY:	SCRANTON	*LONGITUDE:*	-75.623
MSA:	SCRANTON-WILKES BARRE	*ADDRESS:*	GEORGE ST TROOP AND CITY OF SCRANTON

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Particulate Matter PM2.5**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Population Exposure
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	BAM
Appendix C Monitoring Method:	EQPM-0308-170
Monitoring Method Description:	Beta Attenuation
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Urban Scale
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**PM2.5 Speciation**
Sensor Network Designation:	STN
Sensor Purpose Designation:	Research/Scientific Monitoring
Sample Frequency:	Every 6th day
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Speciation
Appendix C Monitoring Method:	None
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Neighborhood
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	SHELOCTA	*AIRS Site ID:*	420630005
COUNTY:	INDIANA	*LATITUDE:*	40.65251
MUNICIPALITY:	ARMSTRONG TWP	*LONGITUDE:*	-79.2927
MSA:	NOT IN MSA	*ADDRESS:*	182 SOUTH RIDGE DRIVE

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	SLIPPERY ROCK	*AIRS Site ID:*	420190020
COUNTY:	BUTLER	*LATITUDE:*	41.06305
MUNICIPALITY:		*LONGITUDE:*	-80.0308
MSA:	PITTSBURGH	*ADDRESS:*	1 MORROW WAY

Sensor Type:	Metals/TSP	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	High Volume Sampler with Quartz Filter (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

Sensor Type:	Volatile Organic Compound	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	Canister (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	STATE COLLEGE (PSU)	*AIRS Site ID:*	420270100
COUNTY:	CENTRE	*LATITUDE:*	40.81116
MUNICIPALITY:	STATE COLLEGE	*LONGITUDE:*	-77.8772
MSA:	STATE COLLEGE	*ADDRESS:*	PENN STATE UNIVERSITY - ARBORETUM SITE

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0202-145
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Daily	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**PM2.5 Speciation**	*Appendix C Monitoring Method:*	None
Sensor Network Designation:	STN	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Research/Scientific Monitoring	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Speciation	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**STRONGSTOWN**	***AIRS Site ID:***	**420630004**
COUNTY:	**INDIANA**	*LATITUDE:*	**40.5633**
MUNICIPALITY:	**STRONGSTOWN**	*LONGITUDE:*	**-78.9199**
MSA:	**NOT IN A MSA**	*ADDRESS:*	**PA. DEPT. OF TRANSPORTATION - RT.403**

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	SWARTHMORE	*AIRS Site ID:*	420450003
COUNTY:	DELAWARE	*LATITUDE:*	39.8969
MUNICIPALITY:	SWARTHMORE	*LONGITUDE:*	-75.3539
MSA:	PHILADELPHIA	*ADDRESS:*	500 COLLEGE AVE.

Sensor Type:	Metals/TSP	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	High Volume Sampler with Quartz Filter (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

Sensor Type:	Volatile Organic Compound	*Appendix C Monitoring Method:*	
Sensor Network Designation:	Other	*Monitoring Method Description:*	Canister (24 Hour)
Sensor Purpose Designation:	Air Toxics	*Appendix D Design Criteria*:*	No
Sample Frequency:	1 in 6	*Appendix D Scale:*	
Appendix A QA Assessment:*	No	*Appendix D Objectives:*	
Appendix C Monitoring Classification:		*Appendix E Siting Criteria*:*	No

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	TIOGA COUNTY (PSU)	*AIRS Site ID:*	421174000
COUNTY:	TIOGA	*LATITUDE:*	41.64558
MUNICIPALITY:	GLEASON	*LONGITUDE:*	-76.9379
MSA:	NOT IN A MSA	*ADDRESS:*	TIOGA

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Specific Location Characterization	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Regional Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	General/Background
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	UPPER STRASBURG	*AIRS Site ID:*	420550002
COUNTY:	FRANKLIN	*LATITUDE:*	40.05982
MUNICIPALITY:	LETTERKENNY TWP	*LONGITUDE:*	-77.7106
MSA:	NOT IN MSA	*ADDRESS:*	9716 UPPER STRASBURG RD

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	VANPORT	*AIRS Site ID:*	420070505
COUNTY:	BEAVER	*LATITUDE:*	40.68486
MUNICIPALITY:	VANPORT	*LONGITUDE:*	-80.3229
MSA:	NOT IN A MSA	*ADDRESS:*	TAMAQUI DR

Sensor Type:	Lead/TSP	*Appendix C Monitoring Method:*	EQL-0592-086
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Every 6th day	*Appendix D Scale:*	Middle Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Source Oriented
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments: Installed new HI-Q sampler on 1/1/2010

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	WARREN OVER LOOK	*AIRS Site ID:*	421230004
COUNTY:	WARREN	*LATITUDE:*	41.84372
MUNICIPALITY:	WARREN	*LONGITUDE:*	-79.1728
MSA:	NOT IN A MSA	*ADDRESS:*	OVERLOOK SITE - NEAR STONE HILL ROAD

Sensor Type:	Sulfur Dioxide	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Highest Concentration
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**WASHINGTON**	*AIRS Site ID:*	**421250200**
COUNTY:	**WASHINGTON**	*LATITUDE:*	**40.17063**
MUNICIPALITY:	**WASHINGTON**	*LONGITUDE:*	**-80.2617**
MSA:	**PITTSBURGH**	*ADDRESS:*	**MCCARRELL AND FAYETTE STS**

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	EQPM-0202-145
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Daily	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Manual Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	**WILKES BARRE**	*AIRS Site ID:*	**420791101**
COUNTY:	**LUZERNE**	*LATITUDE:*	**41.26597**
MUNICIPALITY:	**WILKES BARRE**	*LONGITUDE:*	**-75.8463**
MSA:	**SCRANTON-WILKES BARRE**	*ADDRESS:*	**CHILWICK & WASHINGTON STS**

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**	*Appendix C Monitoring Method:*	EQSA-0495-100
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Fluorescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Neighborhood
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	YORK	*AIRS Site ID:*	421330008
COUNTY:	YORK	*LATITUDE:*	39.96552
MUNICIPALITY:	YORK	*LONGITUDE:*	-76.6995
MSA:	YORK-HANOVER	*ADDRESS:*	HILL ST.

Sensor Type:	**Carbon Monoxide**	*Appendix C Monitoring Method:*	RFCA-1093-093
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Non-dispersive Infrared
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Nitrogen Dioxide**	*Appendix C Monitoring Method:*	RFNA-1194-099
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Chemiluminescence
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Ozone**	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**Particulate Matter PM10**	*Appendix C Monitoring Method:*	EQPM-1090-079
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	TEOM Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	TEOM Automated Equivalent	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	None
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Population Exposure	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	FDMS	*Appendix E Siting Criteria*:*	Yes

Comments:

Sensor Type:	**Particulate Matter PM2.5**	*Appendix C Monitoring Method:*	RFPS-0498-118
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	Gravimetric
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Daily	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Population Exposure
Appendix C Monitoring Classification:	Manual Reference Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

Sensor Type:	**PM2.5 Speciation**
Sensor Network Designation:	STN
Sensor Purpose Designation:	Research/Scientific Monitoring
Sample Frequency:	Every 6th day
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Speciation
Appendix C Monitoring Method:	None
Monitoring Method Description:	Gravimetric
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Urban Scale
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

Sensor Type:	**Sulfur Dioxide**
Sensor Network Designation:	SLAMS
Sensor Purpose Designation:	Regulatory Compliance
Sample Frequency:	Continuous
Appendix A QA Assessment:*	Yes
Appendix C Monitoring Classification:	Automated Equivalent Method
Appendix C Monitoring Method:	EQSA-0495-100
Monitoring Method Description:	UV Fluorescence
Appendix D Design Criteria:*	Yes
Appendix D Scale:	Urban Scale
Appendix D Objectives:	Population Exposure
Appendix E Siting Criteria:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

SITE NAME:	YORK DOWNWIND	*AIRS Site ID:*	421330011
COUNTY:	YORK	*LATITUDE:*	39.86097
MUNICIPALITY:	YORK	*LONGITUDE:*	-76.4620
MSA:	YORK-HANOVER	*ADDRESS:*	2650 DELTA ROAD

Sensor Type:	Ozone	*Appendix C Monitoring Method:*	EQOA-0992-087
Sensor Network Designation:	SLAMS	*Monitoring Method Description:*	UV Absorption
Sensor Purpose Designation:	Regulatory Compliance	*Appendix D Design Criteria*:*	Yes
Sample Frequency:	Continuous	*Appendix D Scale:*	Urban Scale
Appendix A QA Assessment:*	Yes	*Appendix D Objectives:*	Extreme Downwind
Appendix C Monitoring Classification:	Automated Equivalent Method	*Appendix E Siting Criteria*:*	Yes

Comments:

**The Pennsylvania Department of Environmental Protection, Bureau of Air Quality, maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates it sites to meet all requirements of Appendix E. Detailed Appendix A, D and E requirements appear at* http://www.gpoaccess.gov/cfr/index.html

This and related environmental information are available electronically via the Internet. For more information, visit us through the DEP web site at http://www.depweb.state.pa.us/(DEP Keyword: Air, Air Pollution, Air Quality, Clean Air).