2016 Annual Air Monitoring Network Plan

Division of Air Resource Management
Florida Department of Environmental Protection
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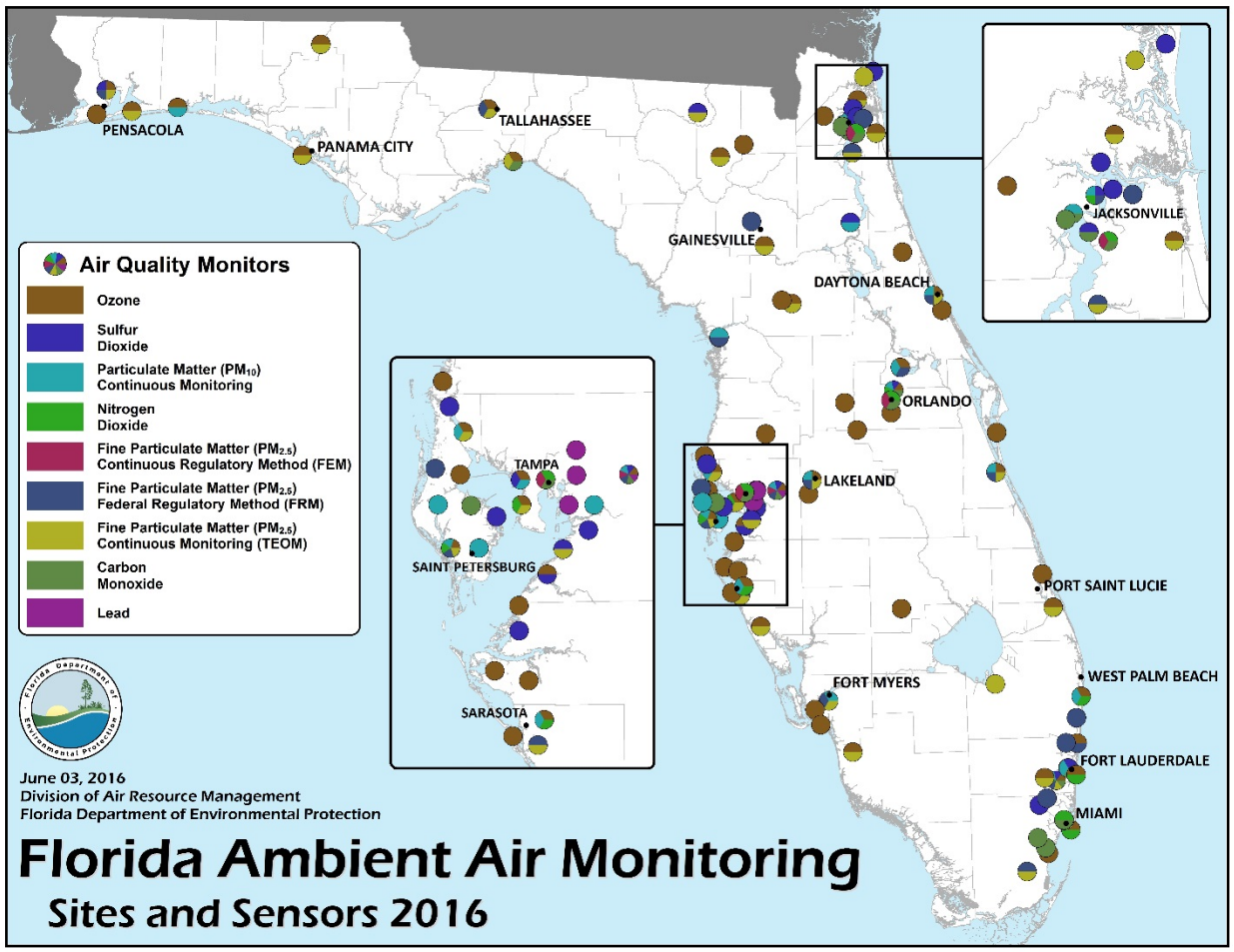
INTRODUCTION

Florida has created a robust and comprehensive air monitoring network that covers over 90 percent of the 20,271,272 people living in Florida, the third most populous state in the United States. The Florida Department of Environmental Protection's (DEP) network is designed to provide the public with accurate air quality information, and currently meets or exceeds current federal air monitoring requirements.

The ambient air monitoring network is comprised of more than 220 monitors at 101 sites that are strategically positioned across the state to measure air quality. As Figure 1 depicts, the ambient air monitoring sites are concentrated in areas of high population density, along coastal areas and near interstates. In addition, three rural monitoring sites were established to create representative sites for comparison to regional background levels of pollution: one in the panhandle, one in the northern area of the peninsula, and one in the southern area of the peninsula.

Figure 1. 2016 Site Locations for Florida's Ambient Air Monitoring Network



A Primary Quality Assurance Organization (PQAO) is the umbrella under which Florida's monitoring agencies are organized to ensure that monitoring is conducted according to a common set of procedures, using common calibration facilities and standards, with oversight by one air quality organization. DEP's Division of Air Resource Management is the coordinating agency to oversee the single PQAO in Florida, which consists of DEP and nine Local Program agencies (see Table 1).

Florida's air monitoring network is designed to provide timely air pollution data to the public, support compliance with ambient air quality standards, develop emission reduction strategies, and support air pollution research studies. Data gathered from Florida's monitoring network is used to:

- Determine an area's compliance with the National Ambient Air Quality Standards (NAAQS);
- Produce a daily Air Quality Index (AQI) report;
- Compile daily air quality forecast reports;
- Support short and long-term health risk assessments;
- Identify localized health concerns; and
- Track long-term trends in air quality that could potentially affect the quality of life of Florida's residents and visitors.

This annual Air Monitoring Network Plan is a requirement of the Code of Federal Regulations (40 CFR 58) that were established by the U.S. Environmental Protection Agency (EPA). The purpose of this report is to provide evidence that Florida's air monitoring network meets current regulations, detail any changes proposed for the 18 months following its publication and provide specific information on each of the state's existing and proposed monitoring sites. Federal regulations require that the plan be posted for public comment 30 days before submission to the EPA Regional Office. The plan will be available to the public on the DEP website for the 30-day comment period.

Table 1. Florida's Primary Quality Assurance Organization

DEP's Division of Air Resource Management	Local Programs
Office of Air Monitoring	Broward County
Emerald Coast (Panama City area)	City of Jacksonville
First Coast (Jacksonville area)	Hillsborough County
Forgotten Coast (Tallahassee area)	Manatee County
Lee Island Coast (Ft. Myers area)	Miami-Dade County
Nature Coast (Gainesville area)	Orange County
Naval Aviation Coast (Pensacola area)	Palm Beach County
Space Coast (Orlando area)	Pinellas County
Sun Coast (Tampa area)	Sarasota County

AIR MONITORING NETWORK 2016

Florida's air monitoring network is critical for assessing the progress in maintaining and improving the state's air quality, understanding temporal variations in air pollutants and evaluating pollutant exposure by individuals and the environment. One fundamental purpose of monitoring is to distinguish between areas where pollutant levels violate the ambient air quality standards and areas where they do not. Areas in violation of a standard usually have increased efforts to reduce the sources of pollution that result in exceedances. Air quality agencies develop strategies, programs and regulations to achieve needed emission reductions. Data from the Florida's air monitoring network are then used to determine the rate of progress toward attaining the standards.

Network Design Principles

There are many influences on the design of air monitoring networks. Federal requirements and continuous population growth within the state are two vital factors that change over time. This section contains the design principles and other information specified by federal regulations.

The principles that guide network design for Florida are:

1. Sites will meet the Code of Federal Regulations for the number, type and placement of monitors.
2. Attention will be paid to historic areas of exceedances or violations where the contributing industry or population has been maintained.
3. There will be sufficient ozone and fine particle pollution monitors to maintain AQI reporting to large (350,000+ population) communities.
4. During network design, weight will be given to monitors that have long historical records.
5. Partnerships with private entities will be used judiciously.
6. Any monitoring required by State Implementation Plans (SIP) will continue.
7. Coordination with Florida's local programs will be maintained to achieve a quality statewide network.

Details of the network are in the "Network Description and Requirements" section of this plan. The network description is organized first by the largest Metropolitan Statistical Areas followed by the monitoring of areas not within a Metropolitan Statistical Area. Nine county agencies assist DEP in the operation of the statewide air monitoring network in their respective counties. Each county's Metropolitan Statistical Areas or Micropolitan Statistical Area is identified. Requirements for the minimum number of monitoring sites are dependent on both the population, which is listed, and population concentration for ozone, $PM_{2.5}$ and PM_{10}. The recently calculated Population Weighted Emission Index (PWEI) is listed for any areas with a PWEI over 5,000 where monitoring for sulfur dioxide is required.

The AQI is reported and updated hourly on DEP's website at www.dep.state.fl.us/air/airquality.htm. It is available in both graphical and text versions. The data to support this website are collected from all continuous monitors in the state. These data are also shared on EPA's AIRNOW site at www.airnow.gov.

Additionally, an Air Monitoring Network Plan is required to provide evidence that siting and operation of each monitor meets the requirements of Appendices A, C, D and E of 40 CFR Part 58. Appendix A covers quality assurance requirements for State and Local Air Monitor Stations (SLAMS) and Special Purpose Monitors (SPM) air monitoring. These requirements are met with three basic functions:

1. A quality system must have approved standard operating procedures (SOP), a Quality Management Plan (QMP) and Quality Assurance Project Plans (QAPP), which are in place and updated as needed. The most recent QAPP was approved in April 2007 for all the gaseous pollutants and an updated QAPP was submitted to EPA in April 2014. The $PM_{2.5}$ QAPP was approved in July 2012 and is currently under revision. The current QMP was approved in December 2014.
2. DEP Quality Assurance staff complete instrument performance and management systems audits for all agencies throughout the state.
3. All quality assurance and quality control records must be sent to EPA's Air Quality System (AQS) database quarterly. The $PM_{2.5}$ collocation specifications are met by each agency operating a Federal Reference Method (FRM) $PM_{2.5}$ running at least one collocated FRM with six additional FRM $PM_{2.5}$ collocated sites within DEP. The total number of collocated FRM $PM_{2.5}$ instruments is 16, more than the requisite 15 percent of the 26 FRMs in operation. All FRMs in Florida are TEI (formally, R&P) 2025 or 2025i samplers. The collocation requirement for six $PM_{2.5}$ Federal Equivalent Methods (FEM) is addressed with a $PM_{2.5}$ FRM/FEM collocation at Sydney (AQS Site #12-057-3002), where the FEM is a TEI 5014i. The requirements of 40 CFR Part 58, Appendix A, are met by a combination of these activities. There is an approved waiver to maintain the FEM Met One BAM 1020 instruments operating in Palm Beach County as non-regulatory monitors since they do not meet the required FEM statistics in 40 CFR Part 53(C).

40 CFR Part 58, Appendix C, describes general instrument requirements. Florida's air monitoring network is comprised of both federally and non-federally approved instrumentation. Only data from the federally approved instrumentation can be used for designations. Additionally, all instrumentation are subjected to the same quality assurance and quality control requirements as those used for designations. The instruments are described in detail in the "Network Description and Requirements" section of this plan.

40 CFR Part 58, Appendix D, contains monitor siting requirements. Sites within Florida's air monitoring network are established using these requirements. This annual Air Monitoring Network Plan assesses the network's ability to meet the siting requirements.

40 CFR Part 58, Appendix E, contains the probe siting criteria for ambient air quality monitoring. To assure that these requirements continue to be met, sites are reviewed annually by DEP audit staff. The results of these reviews are used to determine if the sites meet siting requirements. Any discrepancies are dealt with, at minimum, on an annual basis. A table summarizing the site reviews conducted in the last year, as well as any issues discovered, is provided in Appendix C.

Network Modifications

Over the last several years, DEP and Florida's local program agencies have made extensive investments in Florida's air monitoring network. These upgrades and enhancements have been implemented to take advantage of software and hardware technological advancements for greater operational efficiency. These equipment upgrades are reflected in the "Network Description and Requirements" and "Network Equipment Evaluation" sections of the plan. The following are major equipment purchases and upgrades accomplished during the last 12 months:

- DEP purchased three Teledyne-API Model 602 Beta Plus Particle Measurement Systems
- DEP purchased five TEI TEOM 1405 Continuous Ambient Particulate Monitors
- DEP purchased five TEI Partisol 2025i Sequential Air Samplers
- Broward County purchased three TEI Partisol 2025i Sequential Air Samplers
- Broward County purchased one 43iTL Trace Level SO_2 analyzer
- Broward County purchased one Teledyne-API T200UP NO_2 analyzer
- City of Jacksonville purchased three TEI TEOM 1405 Continuous Ambient Particulate Monitors
- Hillsborough County purchased three TEI Partisol 2025i Sequential Air Samplers
- Hillsborough County purchased two 43i SO_2 analyzers
- Hillsborough County purchased one 48i-TLE Trace Level CO analyzer
- Miami-Dade County purchased one Teledyne-API T200UP NO_2 analyzer
- Pinellas County purchased one Teledyne-API T300U CO analyzer
- Pinellas County purchased one Teledyne-API 500U Direct Measure NO_2 analyzer
- Sarasota County purchased two TEI TEOM 1405 Continuous Ambient Particulate Monitors

Other significant network accomplishments over the last year are provided in Table 2.

Table 2. Network Accomplishments

AQS Site #	Name	Parameter	Modification
12-011-0035	Fort Lauderdale Near Road	NO_2, CO, $PM_{2.5}$	Addition: August 2015
12-057-0111	Johnson Control	Lead	Addition: January 2016
12-057-0113	Munro Street	NO_2, CO, $PM_{2.5}$, Black Carbon	Relocation: NO_2, CO, $PM_{2.5}$, Black Carbon January 2016
12-103-0027	I-275	NO_2, CO, Black Carbon	Addition: May 2016

With the approval of Florida's 2015 Annual Air Monitoring Network Plan, EPA requested that DEP submit additional information for a full evaluation of near-road monitoring sites in Miami, Largo and the source-oriented SO_2 site at Crystal River. This Air Monitoring Network Plan addresses that request and provides additional information on other sites changes as well. Table 3 provides a summary of sites requiring changes or where additional information was needed following the last Air Monitoring Network Plan submission. In addition, DEP reserves the right to make unplanned network changes in the event a site needs to be closed or relocated due to events beyond our control. These may include, but not be limited to, issues with site access and unpredictable circumstances.

Table 3. Sites Requiring Changes or Additional Information

AQS Site #	Name	Parameters	Action
12-086-0035	Perimeter Road	Near-road NO_2	Additional information provided
12-103-0027	Sawgrass Lake Parkway	Near-road NO_2	Additional information provided
12-057-0113	Munro Street	Near-road NO_2	Addition
12-057-1111	Julian B. Lane Park	Near-road NO_2	Close
12-017-0006	Crystal River Preserve	SO_2 and Continuous $PM_{2.5}$	Additional information provided
12-086-0019	Pennsuco	SO_2	Monitoring Objective Change
12-099-0021	Lantana Preserve	Ozone, PM_{10} and NO_2	Combined dataset request
12-103-0012	Woodlawn	PM_{10}	Siting Criteria Waiver
12-011-0010	Lincoln Park	SO_2, CO, PM_{10} and Toxics	Close
12-073-0013	Greenways	Ozone	Close
12-011-5005	Coconut Creek Park	PM_{10} and $PM_{2.5}$	Relocation
12-099-0009	Royal Palm Beach	Ozone, $PM_{2.5}$ and Continuous $PM_{2.5}$	Close
12-099-0022	Lamstein Lane	Ozone and $PM_{2.5}$	Addition
12-059-0001	Bonifay	Ozone and Continuous $PM_{2.5}$	Relocation

Additionally, DEP is requesting to reassign several monitors from SLAMS to SPM in the monitoring network. These changes will provide greater flexibility when unforeseen network changes are needed due to events beyond our control. The details are provided in Appendix B.

Specifically, the monitors meet the criteria of 40 CFR Part 58.14(c):

- The monitors have shown attainment for the previous five years, with concentrations below the NAAQS.
- Calculations of the monitoring data provide that there is less than a 10 percent probability of the monitor exceeding 80 percent of the NAAQS over the next three years.
- The monitors are not specifically required by an attainment or maintenance plan.

The SPM monitors will continue to meet the quality assurance requirements in 40 CFR Part 58, Appendix A and will maintain spatial coverage for Florida.

NCore Network

The National Core (NCore) monitoring network is designed to be approximately 80 sites nationwide, with the intent to have a network made of largely population-oriented sites and some rural sites that take advantage of multi-pollutant monitoring. Details of the NCore network are provided on EPA's website at www3.epa.gov/ttn/amtic/ncore.html. Table 4 provides information on Florida's NCore sites.

Florida currently operates three NCore monitoring sites, where two are required. EPA requested DEP operate a rural NCore site at the St. Marks National Wildlife Refuge to enhance the coverage for the southeastern United States. This site (AQS Site #12-129-0001) takes advantage of the already present Interagency Monitoring of Protected Visual Environments (IMPROVE) monitoring for particulate matter and the existing DEP ozone site.

Building on the Speciation Trends Network (STN), EPA located the two required NCore sites in the largest Metropolitan Statistical Areas in the state - the Miami-Fort Lauderdale-Miami Beach area (more than 6 million) and Tampa-St. Petersburg-Clearwater area (more than 2 million). The site in the Miami-Fort Lauderdale-Miami Beach area was relocated due to the construction plans for a source that would influence the site. The replacement site for the Miami-Fort Lauderdale-Miami Beach area is AQS Site #12-011-0034 in Davie, which is operated by Broward County. The site began operation in August 2015 and the meteorological instruments will be operational in the summer of 2016.

In the Tampa-St. Petersburg-Clearwater area, the NCore site is Sydney (AQS Site #12-057-3002), which is operated by Hillsborough County. This site was used as part of a large and intense nitrogen deposition study called the Bay Regional Atmospheric Chemistry Experiment (BRACE). It has also been monitoring trace SO_2, CO and NO_y since 2004. Since the primary use of the NCore sites is to obtain air quality trends analyses, Sydney's location in a more rural part of the county is ideal for tracking trends that reflect the increasing population.

Table 4. NCore Sites in Florida

AQS Site #	Name	Parameter
12-129-0001	St. Marks National Wildlife Refuge	O_3, NO_y, CO, SO_2_TL, Continuous $PM_{2.5}$
12-011-0034	Daniela Banu	O_3, NO_y_TL, NO_z_TL, NO_TL, CO_TL, SO_2_TL, Continuous $PM_{2.5}$, $PM_{10-2.5}$, Low Volume PM_{10}, PM_{10} and $PM_{2.5}$
12-057-3002	Sydney	O_3, NO_y_TL, NO_z_TL, NO_TL, CO_TL, SO_2_TL, Continuous $PM_{2.5}$, $PM_{10-2.5}$, Low Volume PM_{10}, PM_{10} and $PM_{2.5}$

Photochemical Assessment Monitoring Station

The NCore sites in Metropolitan Statistical Areas with populations over 1 million will be required to incorporate Photochemical Assessment Monitoring Station (PAMS) under 40 CFR part 58, Appendix D, section 5(a), no later than June 1, 2019. The PAMS measurements include:

1. Hourly averaged speciated volatile organic compounds (VOCs);
2. Three eight-hour averaged carbonyl samples per day on a 1 in 3 day schedule, or hourly averaged formaldehyde;
3. Hourly averaged O_3;
4. Hourly averaged nitrogen oxide (NO), true nitrogen dioxide (NO_2), and total reactive nitrogen (NO_y);
5. Hourly averaged ambient temperature;
6. Hourly vector-averaged wind direction;
7. Hourly vector-averaged wind speed;
8. Hourly average atmospheric pressure;
9. Hourly averaged relative humidity;
10. Hourly precipitation;
11. Hourly averaged mixing-height;
12. Hourly averaged solar radiation; and
13. Hourly averaged ultraviolet radiation.

NCore sites located in Broward and Hillsborough counties will be required to implement PAMS monitoring.

National Air Toxics Trends Stations Network

The National Air Toxics Trends Stations (NATTS) Network was developed to fulfill the need for long-term Hazardous Air Pollutants (HAPs) monitoring data of consistent quality. Among the principle objectives are assessing trends and emission reduction program effectiveness, as well as assessing and verifying air quality models. The current network configuration includes 27 sites (20 urban, 7 rural) across the United States. There are typically more than 100 pollutants monitored at each NATTS, although only 19 of those are required. These include VOCs, carbonyls, PM_{10} metals, hexavalent chromium and Polycyclic Aromatic Hydrocarbons (PAHs). The two NATTS sites in Florida are in the Tampa Bay area; one in Hillsborough County (Sydney: AQS Site #12-057-3002) and the other in Pinellas County (Skyview: AQS Site #12-103-0026). The two counties jointly administer funds for the NATTS program.

SO_2 Monitoring Network

Florida's air monitoring network is in compliance with current SO_2 monitoring requirements. Ambient monitoring is required for Core Based Statistical Areas (CBSAs) whose PWEI is above 5,000. A single SO_2 monitor is required for CBSAs when the PWEI is above 5,000 and two monitors are required when the PWEI is above 100,000, with a unit of million persons-tons per year. In addition, one SO_2 monitor is required at each of the NCore sites. A summary of these requirements are provided in Table 4. The PWEI values listed were provided by EPA.

Table 5. SO_2 Monitoring Requirements

CBSA Statistical Areas	2015 Census Population	PWEI 2012 NEI	SO_2 Needed	SO_2 Monitors in Place
Miami-Fort Lauderdale-Pompano Beach	6,012,331	147,762	2	3
Tampa-St. Petersburg-Clearwater	2,975,225	94,280	2	7
Orlando-Kissimmee-Sanford	2,387,138	13,157	1	1
Jacksonville	1,449,481	32,408	1	5
North Port-Bradenton-Sarasota	768,918	5,030	1	1
Cape Coral-Fort Myers	701,982	770		
Lakeland	650,092	10,666	1	1
Deltona-Daytona Beach-Ormond Beach	623,279	243		
Palm Bay-Melbourne-Titusville	558,088	3,003		
Pensacola-Ferry Pass-Brent	478,043	13,122	1	1
Port St. Lucie-Fort Pierce	454,846	3,780		
Homosassa Springs [1]	141,058	9,456	1	1
NCore sites (3)	N/A	N/A	3	3
Total			**13**	**23**

[1] Additional information for a full evaluation of the Crystal River Preserve site in Homosassa Springs is included in Appendix A.

At this time, there are no plans to increase SO_2 monitoring in response to the SO_2 Data Requirements Rule. Final decisions regarding the implementation of additional monitoring will be made after the modeling of areas affected by SO_2 sources is complete.

NO_2 Monitoring

There are three federal requirements for NO_2 monitoring: (a) monitoring of vulnerable and susceptible populations, (b) communitywide monitoring for areas with a population over 1 million and (c) near road monitoring for areas with populations over 500,000 that will be phased in over time according to the NO_2 monitoring requirements. The areas with population over 1 million were due to have their sites operational by January 1, 2014. In Florida, those areas are Tampa, Fort Lauderdale, Jacksonville and Orlando. The Tampa, Fort Lauderdale and Jacksonville sites are operational. Orange County has been given a year extension for the Orlando monitoring site to accommodate working with the Florida Department of Transportation as they begin a road-widening project for Interstate 4. A summary of these requirements is provided in Table 5.

Table 6. NO_2 Monitoring Required by 2010 NAAQS

CBSAs with Population over 500,000	Population Estimate (2015)	AADT ≥250,000	Required Near-road Monitors	Required Community wide Monitor	Vulnerable and Susceptible	Total
Miami-Fort Lauderdale-Pompano Beach	6,012,331	✓	2 [1]	1	1	4
Tampa-St. Petersburg-Clearwater	2,975,225	N/A	2 [1]	1	N/A	3
Orlando-Kissimmee	2,387,138	N/A	1	1	N/A	2
Jacksonville	1,449,481	N/A	1	1	N/A	2
North Port-Bradenton-Sarasota	768,918	N/A	1 [2]	N/A	N/A	1
Cape Coral-Fort Myers	701,982	N/A	1 [2]	N/A	N/A	1
Lakeland-Winter Haven	650,092	N/A	1 [2]	N/A	N/A	1
Deltona-Daytona Beach-Ormond Beach	623,279	N/A	1 [2]	N/A	N/A	1
Palm Bay-Melbourne-Titusville	558,088	N/A	1 [2]	N/A	N/A	1
Total						**16**

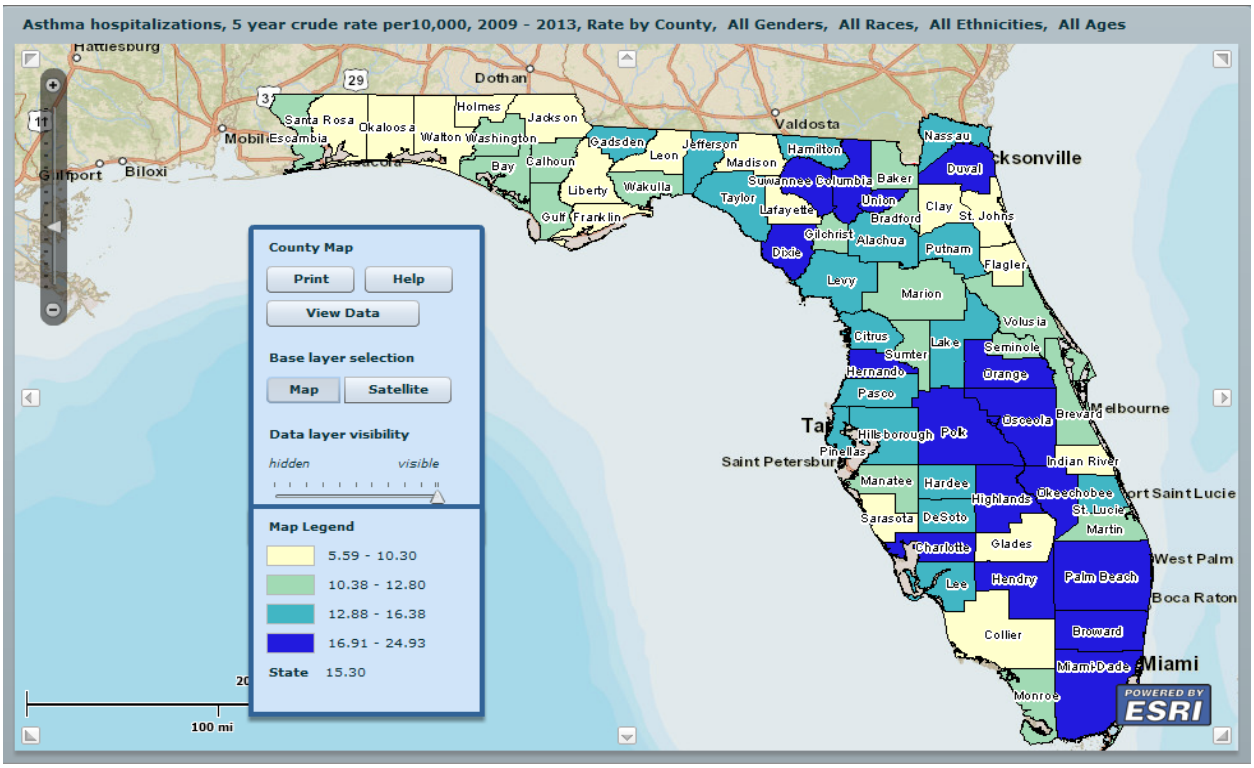
[1] Population greater than 2.5 million requires two near-road sites.
[2] Phase III near-road monitoring must be operational by January 2017; Phase III waiver request is included in Appendix D.

Vulnerable and Susceptible Monitoring

The 2010 NO_2 NAAQS update included monitoring requirements for vulnerable and susceptible populations. Vulnerable populations are those exposed to higher concentrations of NO_2, such those individuals living and working near the high traffic volume highways that will be monitored with the near-road network. Susceptible populations are affected by lower levels of NO_2 than the general population or because they experience a larger health impact than the general population to a given level of exposure. According to EPA's Integrated Science Assessment for Oxides of Nitrogen-Health Criteria, factors that can confer susceptibility include pre-existing diseases (e.g., asthma).

Florida participates in the National Environmental Public Health Tracking Network supported by the U.S. Centers for Disease Control. This program examines health and environmental data to help federal, state and local agencies plan, apply and develop environmental public health actions. The higher crude rate of asthma hospitalizations has been used as an indicator of vulnerable and susceptible communities in Florida. Miami-Dade County's NO_2 site, located at the University of Miami, Rosenstiel (AQS Site #12-086-0027), has been designated as a vulnerable and susceptible monitoring site for NO_2. Figure 2 provides the most recent year of Florida's crude rate of asthma hospitalization by county for which data are available. The full list of the NO_2 monitors identified by the Regional Administrators can be found on EPA's website at https://www3.epa.gov/ttnamti1/svpop.html.

Figure 2. Florida Crude Rate of Asthma Hospitalization, 2009-2013



Communitywide NO_2 Monitoring

Communitywide NO_2 monitoring sites are required in each CBSA of 1 million people or more. There are four such CBSAs in Florida. Table 6 provides the communitywide designated monitors in these areas.

Table 7. Communitywide Designated Monitors

CBSA Name	County	Site Name	AQS Site #
Jacksonville	Duval	Kooker Park	12-031-0032
Miami-Fort Lauderdale-Miami Beach	Broward	John U Lloyd State Park	12-011-8002
Orlando	Orange	Winter Park	12-095-2002
Tampa-St. Petersburg-Clearwater	Pinellas	Azalea Park	12-103-0018

Near-Road NO_2 Network

The areas with population over 1 million were due to have their near-road NO_2 sites operational by January 1, 2014. The Tampa and Jacksonville sites are currently operational and Fort Lauderdale's site began operating in August 2015. Orange County's site is expected to be fully operational by August 1, 2016.

CBSAs with a population of 2.5 million or more, which for Florida are Miami-Fort Lauderdale-Pompano Beach and Tampa-Saint Petersburg-Clearwater, are required to have a second near-road NO_2 monitoring site. They were scheduled to be operational by January 1, 2015. The Tampa-St. Petersburg-Clearwater site, Largo (AQS Site #12-103-0027), began operating on May 16, 2016. The Miami-Fort Lauderdale-Pompano Beach site, which has been selected to be on Perimeter Road, is expected to be in operation by December 2016. Specific details on the Largo and Perimeter Road sites are provided in Appendix A.

Lead Monitoring Network

The requirement to conduct lead (Pb) monitoring at NCore sites has been removed from 40 CFR Part 58, Appendix D 3(b), due to evidence that the background levels of lead at NCore sites were negligible. In the past four years of Pb-PM_{10} monitoring at the Hillsborough County NCore site, Sydney (AQS Site #12-057-3002), the highest sample concentration reported was 0.008 µg/m^3 and the 2013-2015 design value was 0.00 µg/m^3. In accordance with the Monitoring Rule modifications, DEP will discontinue lead monitoring at the Hillsborough County NCore site effective June 30, 2016.

The lead source monitoring requirements are currently being met by established monitors. As part of the review for the Annual Air Monitoring Network Plan, airport emissions in the state were reviewed. Airport lead emissions were modeled by EPA's Office of Transportation and Air Quality for 2009. Daytona International Airport did not exceed the 1 ton per year (tpy) threshold and does not require monitoring. There were 5 percent fewer operations at the airport in 2015 than in 2009, which indicated that the airport emissions remained below 1 tpy.

TECO Big Bend in Hillsborough County, Duke Energy at Crystal River in Citrus County, and JEA Northside in Duval County reported more than 0.5 tpy of total lead (elemental lead and lead compounds) in their 2014 Annual Operating Reports. However, these facilities were modeled to determine if the ambient concentration would be less than 50 percent of the lead NAAQS and the results demonstrated that the concentrations were less than 1 percent of the NAAQS, thereby removing the requirement for lead monitoring. The waivers from ambient monitoring per 40 CFR Part 58, Appendix D, 4.5 (ii), are included in Appendix D.

The 2011 National Emissions Inventory (NEI) reported IFF Chemical's lead emissions in excess of 0.5 tpy. However, the emission factor was incorrectly reported and the corrections resulted in concentrations of 0.0015 tpy for 2011. Furthermore, the most recent data submitted for the 2014 NEI reports even lower lead emissions of 0.0009 tpy, thereby verifying that annual lead emissions are below 0.5 tpy and lead monitoring is not required for this source.

NETWORK DESCRIPTION AND REQUIREMENTS

Florida's air monitoring network, including changes expected by July 1, 2017, is described below. It is organized by Metropolitan Statistical Area from largest to smallest. It is followed by the requirements of 40 CFR Part 58, Appendix D, as it applies to Florida.

Table 8. Network Description

METROPOLITAN STATISTICAL AREA: MIAMI - FT LAUDERDALE - MIAMI BEACH (BROWARD, MIAMI-DADE AND PALM BEACH COUNTIES)										
Broward County										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
011-0010	600 NW 19 AVENUE	SLAMS	SO_2	TAPI T100	SOURCE	NBH	CONTINUOUS	SOURCE MONITORING	CLOSE	SU 5/1/92, SITE 28
	26.131944,-80.166667	SLAMS	CO	TAPI T300	HI CONC	NBH	CONTINUOUS	TRENDS MONITORING	CLOSE	SU 1/1/92, SLAMS 4/27/92
		SLAMS	PM_{10}	MET ONE 1020	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING	CLOSE	SU 7/1/14
		NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING	CLOSE	SU 11/21/09
011-0033	4001 SW 142ND AVENUE, DAVIE	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING		SU 1/09
	26.073056,-80.338889	SPM	$PM_{2.5}$	R&P 1400A	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING		VISTA VIEW PARK
		NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING	CLOSE	SU 1/15
011-0034	PINE ISLAND ROAD PARCEL	PROP NCORE	PM_{10}	TISCH	POPULATION	URBAN	1/6 DAY	NEEDED BY REGULATION		SU 2/1/15, DANIELA BANU, COLLOCATED
	26.054047,-80.257608	PROP NCORE	$PM_{2.5}$	TEI 2025i	POPULATION	NBH	DAILY	NEEDED BY REGULATION		SU 1/1/15
		PROP NCORE	$PM_{2.5}$	TEI 2025i	POPULATION	NBH	1/12 DAY	NEEDED BY REGULATION		SU 1/1/15
		PROP NCORE	$PM_{2.5}$	TEI 5014i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 7/1/15
	PINE ISLAND ROAD	PROP NCORE	PM_{10}	TEI 2025i	POPULATION	NBH	DAILY	NEEDED BY REGULATION		SU 3/1/15
	SOUTH OF SW 57TH STREET, DAVIE	PROP NCORE	SO_2	TEI 43iTL	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	ADD	SU 7/1/15
		PROP NCORE	CO	TECO 48CTL	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	ADD	SU 7/1/15
		PROP NCORE	NO_Y	TECO 42CY	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	ADD	SU 7/1/15
		PROP NCORE	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	ADD	SU 7/1/15
		CSN	SPEC. $PM_{2.5}$	METONE SUPERSASS	POPULATION	NBH	1/6 DAY	TRENDS NETWORK		SU 1/1/15
		CSN	EC/OC	URG 3000N	POPULATION	NBH	1/3 DAY	TRENDS NETWORK		SU 1/1/15
		NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING		SU 1/1/15, COLLOCATED
011-0035	799 N INTERSTATE 95, FORT LAUDERDALE	SLAMS	NO_2	TAPI T200UP	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION		SU 8/21/15
	26.131256,-80.167847	SLAMS	CO	TEI 48i TL	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION		SU 8/1/15
	I-95 SOUTH/SUNRISE BOULEVARD	SPM	BC	TAPI 633	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	ADD	SU 4/16
	33311	SPM	ULTRA FINE	TSI 3031	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	ADD	SU 4/16
		SLAMS	$PM_{2.5}$	TEI 5014i	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	ADD	SU 4/16
011-2003	1951 NE 48TH STREET	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	RELIED ON FOR SPATIAL		SU 1/1/89, MET POMPANO BEACH, SITE 1

	26.290833,-80.096667	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	URBAN	1/3 DAY	INTERPOLATION		NEW BUILDING EXPECTED FALL 2016
011-5005	4010 WINSTON PARK BOULEVARD	SLAMS	PM_{10}	WEDDING	SOURCE	NBH	1/6 DAY	SOURCE MONITORING	RELOCATION	SLAMS 10/31/95, SITE 30, SITE TEMPORARY DOWN (8/15-12/15) - CONSTRUCTING NEW PLATFORM SD TEMP. 4/00
	26.295556,-80.177500	NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING	RELOCATION	VOC MONITORING #30 SITE TEMPORARY DOWN - CONSTRUCTING NEW PLATFORM
		SLAMS	$PM_{2.5}$	R&P 2025i	POPULATION	NBH	DAILY	NEEDED BY REGULATION	RELOCATION	SU 10/1/09, SITE TEMPORARY DOWN - CONSTRUCTING NEW PLATFORM
011-8002	JOHN U LLOYD STATE PARK	SLAMS	OZONE	TECO 49i	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/85 (#25)
	26.088056,-80.111389	SLAMS	NO_2	TECO 42i	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 7/8/90 , NEW BUILDING EXPECTED FALL 2016
		NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING	CLOSE	SU 11/09

Miami-Dade County

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
086-0019	US 27 & SR 821	SLAMS	SO_2	TEI 43I	SOURCE	NBH	CONTINUOUS	TRENDS MONITORING		SU 8/18/87, PENNSUCO
	25.897500,-80.380000									
086-0027	UNIVERSITY OF MIAMI, ROSENSTIEL	SLAMS	NO_2	API T200	POPULATION	NBH	CONTINUOUS	ASSIST IN FORECASTING		SU 1/30/85, MET
	25.732500,-80.161944	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 3/7/84
086-0029	PERDUE MEDICAL CENTER	SLAMS	OZONE	API T400	HI CONC	URBAN	CONTINUOUS	USED FOR AQI		SU 5/1/85, MET
	25.586944,-80.326111									TEMP MOVE AFTER ANDREW
086-0031	16000 S DIXIE HIGHWAY	SLAMS	CO	API 300E	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING		SU 7/1/91, SLAMS 4/27/92
	25.621667,-80.344444									
086-0033	7700 NW 186TH STREET	SLAMS	$PM_{2.5}$	R&P 2025B	POPULATION	NBH	1/3 DAY	MONITORING GROWTH IMPACT		5/4/05, TO REPLACE WITH 2025i IN 2016
	25.941944,-80.326388									PALM SPRINGS N FIRE STATION
086-0034	SW 127 AVENUE	SLAMS	CO	API 300E	POPULATION	MIDDLE	CONTINUOUS	TRENDS MONITORING		SU 4/27/05, KENDALL WASD
	17-2730.23-560.70									
086-0035	NEAR-ROAD NO_2	SLAMS	NO_2	T200UP	HI CONC	MICRO	CONTINUOUS	NEEDED BY REGULATION	ADD	EXPECTED STARTUP IN 2016
	25.785466,-80.284325									
086-1016	NW 20TH STREET FIRE STATION	SLAMS	PM_{10}	ANDERSEN 1200	HI CONC	MIDDLE	1/6 DAY	NEEDED BY REGULATION		SU 1/1/85
		SLAMS	PM_{10}	ANDERSEN 1200	HI CONC	MIDDLE	1/6 DAY	COLLOCATED		SU 1/1/85
	25.794722,-80.215555	SLAMS	$PM_{2.5}$	R&P 2025B	POPULATION	NBH	DAILY	NEEDED BY REGULATION		SU 2/4/99, CONVERT TO 2025i IN 2016
		SLAMS	$PM_{2.5}$	R&P 2025B	POPULATION	NBH	DAILY	NEEDED BY REGULATION		SU 2/4/99, CONVERT TO 2025i IN 2016
		SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		AIRNOW POLLING 7/15/03

086-4002	864 NW 23RD STREET (ANNEX)	SLAMS	NO_2	API T200	HI CONC	NBH	CONTINUOUS	ASSIST IN FORECASTING		SU 1/1/84
	25.798333,-80.210278	SLAMS	CO	API 300E	HI CONC	NBH	CONTINUOUS	TRENDS MONITORING		SU 1/1/76, MAY MOVE BASED ON SALE OF BUILDING
086-6001	325 NW 2ND AVENUE	SLAMS	$PM_{2.5}$	R&P 2025B	POPULATION	NBH	DAILY	NEEDED BY REGULATION	RELOCATION	SU 1/27/99, HOMESTEAD CONVERT TO 2025i IN 2016
	25.471944,-80.482778	SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 2/10/04, MAY MOVE BASED ON SAFETY

Palm Beach County										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
099-0008	38145 SR 80	NON-REG	$PM_{2.5}$	BAM 1020	SOURCE	NBH	CONTINUOUS	USED FOR AQI		SU 5/1/09
	26.724166,-80.663333									
099-0009	980 CRESTWOOD BOULEVARD N	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CLOSED	SU 3/1/00, SD 10/21/15
	26.730833,-80.233888	SLAMS	$PM_{2.5}$	R&P 2025A	POPULATION	NBH	DAILY	NEEDED BY REGULATION	CLOSED	SU 12/99, SD 10/21/15
		SLAMS	$PM_{2.5}$	R&P 2025A	POPULATION	NBH	1/12 DAY	COLLOCATED	CLOSED	SU 12/99, SD 10/21/15
		NON-REG	$PM_{2.5}$	BAM 1020	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CLOSED	SU 7/9/07, ROYAL PALM WWTP, SD 10/21/15
099-0022	LAMSTIEN LANE	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI	ADD	EXPECTED STARTUP IN 2016
	26.687501,-80.219685	SLAMS	$PM_{2.5}$	R&P 2025B	POPULATION	NBH	DAILY	NEEDED BY REGULATION	ADD	EXPECTED STARTUP IN 2016
		NON-REG	$PM_{2.5}$	BAM 1020	POPULATION	NBH	CONTINUOUS	USED FOR AQI	ADD	EXPECTED STARTUP IN 2016
099-0021	8TH STREET, LANTANA	SLAMS	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 2/15, LANTANA PRESERVE
	26.592679,-80.058491	SPM	NO_2	API T200	POPULATION	NBH	CONTINUOUS	ASSIST IN FORECASTING		SU 2/2015 Replacing 099-0020
		SLAMS	PM_{10}	BAM 1020	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 2/2015 260 m east of 099-0020
099-2005	225 S CONGRESS	SLAMS	$PM_{2.5}$	R&P 2025B	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION		SU 5/31/01
	26.456944,-80.092777									

METROPOLITAN STATISTICAL AREA: TAMPA - ST PETERSBURG - CLEARWATER (HILLSBOROUGH, PINELLAS, PASCO AND HERNANDO COUNTIES)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Hillsborough County										
057-0081	SIMMONS PARK	SLAMS	OZONE	TEI 49i	HI CONC	URBAN	CONTINUOUS	USED FOR AQI		SU 6/14/78, MET
	27.740033,-82.465146	SLAMS	SO_2	TEI 43i	HI CONC	URBAN	CONTINUOUS	FOR EFFECTIVENESS OF NEW REGULATIONS	CLOSE	SU 1/1/78, SLAMS 4/27/92
057-0083	GARDINIER PARK	SPM	PM_{10}	TEI 1405	SOURCE	MIDDLE	CONTINUOUS	SOURCE MONITORING		SU 4/1/95

	27.864233,-82.383500									
057-0100	2909 N 66TH STREET	SPM	LEAD	TISCH HI VOL	SOURCE	MIDDLE	1/6 DAY	SOURCE MONITORING		SU 4/2/10, KENLY ELEMENTARY
	27.970328,-82.38005									
057-0109	9851 HIGHWAY 41 SOUTH	SLAMS	SO_2	TEI 43i	SOURCE	NBH	CONTINUOUS	SOURCE MONITORING		SU 10/96, EAST BAY, SLAMS 11/13/96
	27.853889,-82.384167									MET; REPLACED GIANTS CAMP
057-0111	2806 POINSETTIA AVENUE	SPM	LEAD	TISCH HI VOL	SOURCE	MICRO	1/6 DAY	SOURCE MONITORING	ADD	SU 1/16, JOHNSON CONTROLS
	28.041181,-82.427606									
057-0113	1497 N MUNRO STREET	SLAMS	NO_2	T-API T200UP	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	ADD	
	27.557311,-82.28170	SLAMS	CO	T-API T300U	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	ADD	
		SPM	BC	T-API 633	SOURCE	MICRO	CONTINUOUS	GRANT REQUEST	ADD	
		SPM	ULTRA FINE	T-API 651	SOURCE	MICRO	CONTINUOUS	GRANT REQUEST	ADD	
		SLAMS	$PM_{2.5}$	TEI 5014i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	ADD	
057-1035	DAVIS ISLAND	SLAMS	PM_{10}	TEI 1405	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 12/1/85, TEOM USED FOR AQI
	27.929167,-82.453611	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 1/1/73, MET
		SLAMS	SO_2	TEI 43i	POPULATION	NBH	CONTINUOUS	FOR EFFECTIVENESS OF NEW REGULATIONS		SU 1/1/74
057-1065	5121 GANDY BOULEVARD	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 9/1/89, MET MARINE RESERVE
	27.893183,-82.538250	SLAMS	NO_2	T-API T200	HI CONC	NBH	CONTINUOUS	COMMUNITYWIDE MONITOR	CLOSE	SU 4/1/90, NO, NO_x
		SPM	$PM_{2.5}$	TEI 1405	HI CONC	NBH	CONTINUOUS	USED FOR AQI		1/1/04
057-1066	1700 N 66TH STREET	SLAMS	LEAD	ANDERSEN 2000	SOURCE	MIDDLE	1/6 DAY	SOURCE MONITORING		SU 1/2/90, CSX RAIL YARD
	27.96950,-82.381850									COLLOCATED
057-1073	6811 E 14TH STREET	SPM	LEAD	TISCH HI VOL	SOURCE	MIDDLE	1/6 DAY	SOURCE MONITORING		SU 10/31/97
	27.964867,-82.379033									NE OF ENVIROFOCUS
057-1111	601 W LAUREL STREET	SLAMS	NO_2	T-API T200UP	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	CLOSE	SU 2/6/14, SD 12/15/15
	27.95555,-82.46714	SLAMS	CO	T-API T300U	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	CLOSE	SU 2/28/14, SD 12/15/15
		SPM	BC	T-API 633	SOURCE	MICRO	CONTINUOUS	GRANT REQUEST	CLOSE	SU 2/6/14, SD 12/15/15
		SPM	ULTRA FINE	T-API 651	SOURCE	MICRO	CONTINUOUS	GRANT REQUEST	CLOSE	SU 2/6/14, SD 12/15/15
		SLAMS	$PM_{2.5}$	TEI 5014i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	CLOSE	SU 2/6/14, SD 12/15/15
057-3002	SYDNEY ROAD	NCORE	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION		SYDNEY SU 01/01/04, MET
	27.965700,-82.230617	NCORE	NO_Y	TEI 42i-Y	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/04
		NCORE	CO_TL	TEI 48i-TLE	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/05

		NCORE	SO2_TL	TEI 43i-TLE	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/06
		NCORE	$PM_{2.5}$	TEI 2025i	POPULATION	URBAN	DAILY	NEEDED BY REGULATION		SU 1/1/04, COLLOCATED
		NCORE	PM_{10}	TEI 2025i	POPULATION	URBAN	DAILY	NEEDED BY REGULATION		SU 1/4/04, COLLOCATED FOR PM COARSE
		NCORE	PM-COARSE	TEI 2025i	POPULATION	URBAN	DAILY	NEEDED BY REGULATION		SU 1/21/10
		NCORE	$PM_{2.5}$	TEI 5014i	POPULATION	URBAN	CONTINUOUS	USED FOR AQI		SU 1/1/05
		NCORE	PM_{10}	GMW HI VOL	POPULATION	URBAN	1/6 DAY	NEEDED BY REGULATION		SU 1/4/04, PM_{10} MASS
		NCORE	PM10-Pb	R&P 2025	POPULATION	URBAN	1/6 DAY	NEEDED BY REGULATION		SU 1/4/04
		STN	EC/OC	URG 3000N	POPULATION	URBAN	1/3 DAY	BASELINE MONITORING		SU 1/1/07
		STN	SPEC. $PM_{2.5}$	METONE SASS	POPULATION	URBAN	1/3 DAY	TRENDS NETWORK		SU 1/04
		NATTS	TOXICS		POPULATION	URBAN	1/6 DAY	BASELINE MONITORING		VOC/CARBONYL/METAL MONITORING

Pinellas County

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
103-0004	2435 SHARKEY ROAD	SLAMS	OZONE	API 400E	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 7/1/78, CLEARWATER JC
	27.971367,-82.736650									
103-0012	1313 19TH STREET N	SLAMS	PM_{10}	ANDERSEN 1200	HI CONC	NBH	1/6 DAY	TRENDS MONITORING		SU 4/1/92, SLAMS 7/20/92
	27.785683,-82.658232									WOODLAWN, WAIVER REQUESTED
103-0018	7200 22ND AVENUE N	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 4/6/78, AZALEA PARK MET
	27.791,-82.740	SLAMS	NO_2	TEI 42i	POPULATION	NBH	CONTINUOUS	ASSIST IN FORECASTING		SU 1/1/78, NO, NOX
		SLAMS	PM_{10}	ANDERSEN 1200	POPULATION	NBH	1/6 DAY	NEEDED BY REGULATION		SU 4/1/92, SLAMS 7/20/92
		SLAMS	$PM_{2.5}$	R&P 2025 B	POPULATION	NBH	DAILY	NEEDED BY REGULATION		SU 1/1/99, COLLOCATED 1/12 DAY
		SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 5/1/01
		NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING		VOC/CARBONYL/METAL MONITORING
103-0023	10100 SAN MARTIN	SLAMS	SO_2	TEI 43C	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING		SU 1/1/79, DERBY LANE
	27.863583,-82.623483									
103-0026	8601 60TH STREET N	NATTS	BC	TAPI 633	POPULATION	NBH	CONTINUOUS	BASELINE MONITORING		SU 9/04 MET, SKYVIEW, PINELLAS PARK
	27.850041,-82.714590	NATTS	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING		VOC/SVOC/CARBONYL/PAHS/METAL/CR+6 MONITORING, CR+6 DISCONTINUED ON 6/28/13
103-1009	1360 SANDY LANE	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION		SU 9/12/03
	27.986283,-82.782150									

103-2008	13280 34TH STREET N	SLAMS	CO	TEI 48C	HI CONC	MICRO	CONTINUOUS	TRENDS MONITORING		SU 4/1/93, SLAMS 7/1/93 GATEWAY
	17-3086.245N-334.583E									
103-3004	1301 ULMERTON	SLAMS	PM_{10}	GWC 1200	HI CONC	MIDDLE	1/6 DAY	TRENDS MONITORING		SU 7/31/88 COLLOCATED 1/12 DAY
	27.895300,-82.774700									MOTOR POOL
103-5002	2200 EAST LAKE ROAD	SLAMS	PM_{10}	ANDERSEN 1200	POPULATION	NBH	1/6 DAY	TRENDS MONITORING		SU 11/1/88; SLAMS 7/20/92; EASTLAKE
	28.090000,-82.700556	SLAMS	OZONE	API 400E	HI CONC	URBAN	CONTINUOUS	USED FOR AQI		SU 1/1/77, MET, JOHN CHESTNUT SR PARK
		SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 9/5/07
103-5003	40671 US 19 NORTH	SLAMS	SO_2	TEI 43C	SOURCE	NBH	CONTINUOUS	TRENDS MONITORING		SU 9/18/98, MET OAKWOOD
	28.141944,-82.740000									SLAMS 12/1/98
103-0027	INTERSTATE 275	SLAMS	NO_2	API 500U	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	ADD	SAWGRASS LAKE PARK, SU 5/16
	27.83440925,-82.66525125	SLAMS	CO	API T300U	SOURCE	MICRO	CONTINUOUS	SUPPORT NEAR-ROAD	ADD	SU 5/16
		SPM	BC	API 633	SOURCE	MICRO	CONTINUOUS	SUPPORT NEAR-ROAD	ADD	SU 5/16

Pasco County										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
101-0005	30908 WARDER ROAD	SLAMS	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	URBAN SPRAWL		SU 9/7/00, MET SAN ANTONIO
	28.331944,-82.305833									
101-2001	3452 DARLINGTON ROAD	SLAMS	OZONE	TEI 49i	HI CONC	URBAN	CONTINUOUS	URBAN SPRAWL		HOLIDAY
	28.194722,-82.756389									SU 1/17/92, MET SLAMS 4/27/92

METROPOLITAN STATISTICAL AREA: JACKSONVILLE (BAKER, CLAY, DUVAL, NASSAU AND ST. JOHNS COUNTIES)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Baker County										
003-0002	OSCEOLA RANGER OFFICE	SPM	OZONE	TEI 49i	BACKGROUND	URBAN	CONTINUOUS	REGIONAL BACKGROUND		SU 1/1/96, OLUSTEE MET
	30.201111,-82.441111									
Duval County										
031-0032	2900 BENNET STREET	SLAMS	SO_2	TEI 43i	HI CONC	NBH	CONTINUOUS	TRENDS MONITORING		SU 1/1/74, KOOKER PARK/LOCAL NAME KP
	30.356111,-81.635556	SLAMS	NO_2	TEI 42i	HI CONC	NBH	CONTINUOUS	COMMUNITYWIDE NO_2 MONITORING		SU 1/6/75
		SPM	$PM_{2.5}$	TEI 2025i	POPULATION	NBH	DAILY	COMMUNITY RESPONSE		SU 7/16/09
		SLAMS	PM_{10}	TEI 1405	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 2/1/08
031-0077	13333 LANIER ROAD	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/79, SHEFFIELD ELEMENTARY SCHOOL

	30.476944,-81.586667	SPM	$PM_{2.5}$	TEI 1405	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 9/1/08, LOCAL NAME: SE, 1405 TO BE INSTALLED IN 2016
031-0080	1605 MINERVA STREET	SLAMS	SO_2	TEI 43i	SOURCE	MIDDLE	CONTINUOUS	SOURCE MONITORING		SU 1/1/79, SOUTHSIDE PLAYGROUND/LOCAL NAME SP
	30.308889,-81.653056	SLAMS	CO	TEI 48i	HI CONC	NBH	CONTINUOUS	TRENDS MONITORING		SU 10/18/79
031-0081	6801 CEDAR BAY ROAD	SLAMS	SO_2	TEI 43i	SOURCE	MIDDLE	CONTINUOUS	SOURCE MONITORING		SU 1/1/78, CEDAR BAY/LOCAL NAME CB
	30.431111,-81.631944									
031-0084	2189 ROSSELLE STREET	SLAMS	PM_{10}	TEI 1405	HI CONC	MIDDLE	CONTINUOUS	NEEDED BY REGULATION		SU 12/1/87, SD 9/29/02, ROSSELLE AND COPELAND/LOCAL NAME RC
	30.320556,-81.686667	SLAMS	CO	TEI 48i	HI CONC	MIDDLE	CONTINUOUS	TRENDS MONITORING		SU 1/1/80, SLAMS 1/1/81
031-0097	6241 FORT CAROLINE ROAD	SLAMS	SO_2	TEI 43i	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING		SU 9/7/91, FORT CAROLINE/LOCAL NAME FC
	30.367222,-81.594167									
031-0098	14932 MANDARIN ROAD	SLAMS	$PM_{2.5}$	TEI 2025i	POPULATION	NBH	DAILY	NEEDED BY REGULATION		SU 6/1/99, MANDARIN/LOCAL NAME MN
	30.135861,-81.634083	SPM	$PM_{2.5}$	R&P 1405	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/04, PLANNED TRAILER REPLACEMENT IN 2016
031-0099	9429 MERRILL ROAD	SLAMS	$PM_{2.5}$	TEI 2025i	POPULATION	NBH	DAILY	NEEDED BY REGULATION		SU 6/1/99, SUNNY ACRES/LOCAL NAME SA
	30.354722,-81.547777	SLAMS	$PM_{2.5}$	TEI 2025I	POPULATION	NBH	1/12 DAY	COLLOCATED		
031-0100	13600 WM. DAVIS PARKWAY	SLAMS	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 9/1/02, MAYO CLINIC/LOCAL NAME MO
	30.260278,-81.453611	SPM	$PM_{2.5}$	TEI 1405	POPULATION	URBAN	CONTINUOUS	USED FOR AQI		SU 1/1/04, TEI 1400 TO BE REPLACED BY 1405 IN 2016
031-0106	4770 CISCO DRIVE	SPM	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 9/28/09, CISCO/LOCAL NAME CS
	30.378056,-81.840556									
031-0107	1216 DAY AVENUE	SPM	CO	TEI 48i	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING		SU 5/3/12, LEE HIGH SCHOOL/LOCAL NAME LH
	30.308534,-81.705577									
031-0108	5895 PEPSI PLACE	SLAMS	NO_2	TEI 42i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/14, PEPSI PLACE/LOCAL NAME PP
	30.262778, -81.606833	SLAMS	CO	TEI 48i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/14
		SLAMS	$PM_{2.5}$	TEI 5014i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/14
Nassau County										
089-0005	WATER PLANT, 5TH STREET	SLAMS	SO_2	TEI 43i	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/76
	30.6575,-81.464167									
089-0010	96160 NASSAU PLACE	SPM	$PM_{2.5}$	1405 TEOM	BACKGROUND	NBH	CONTINUOUS	REGIONAL BACKGROUND		SU 12/21/12, YULEE
	30.62673,-81.53597									

METROPOLITAN STATISTICAL AREA: ORLANDO - KISSIMMEE (LAKE, ORANGE, OSCEOLA AND SEMINOLE COUNTIES)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS

Lake County										
069-0002	1901 JOHNS LAKE ROAD	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	MONITORING EXTENDED COUNTY OF LARGE METROPOLITAN STATISTICAL AREA		SU 6/1/00, MET LOST LAKE ELM, CLERMONT
	28.523611,-81.723611									
Orange County										
095-0008	7005 WINEGARD ROAD	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 9/1/88
	28.454167,-81.381389									
095-2002	MORSE BOULEVARD & DENNING	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/76, WINTER PARK
	28.596389,-81.362500	SLAMS	CO	TEI 48i	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING		SU 3/23/78, MET
		SLAMS	NO_2	TEI 42i	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/81
		SLAMS	SO_2	TEI 43i	HI CONC	NBH	CONTINUOUS	FOR EFFECTIVENESS OF NEW REGULATIONS		SU 1/1/76
		SLAMS	PM_{10}	TEI 4015i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 5/1/91
		SLAMS	$PM_{2.5}$	R&P 2025i	POPULATION	NBH	DAILY	NEEDED BY REGULATION		SU 1/1/99, DAILY
		SLAMS	$PM_{2.5}$	R&P 2025i	POPULATION	NBH	1/12 DAY	COLLOCATED		SU 1/1/99
		SPM	$PM_{2.5}$	TEI 1405	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 06/1/00
		NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING		VOC/CARBONYL MONITORING
095-0009	525 S DIVISION AVE, DELAND	SLAMS	NO_2	TEI 42i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	ADD	SU EXPECTED 8/16
	28.534646,-81.384411	SLAMS	CO	TEI 48i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	ADD	SU EXPECTED 8/16
		SLAMS	$PM_{2.5}$	TEI 5014i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	ADD	SU EXPECTED 8/16
Osceola County										
097-2002	8706 W SR 192	SLAMS	OZONE	TEI 49i	HI CONC	URBAN	CONTINUOUS	URBAN SPRAWL		SU 9/1/93, KISSIMMEE FIRE STATION
	28.345555,-81.636667									SLAMS 10/6/93, MET
Seminole County										
117-1002	SEMINOLE STATE COLLEGE (AG COMP)	SLAMS	OZONE	TEI 49i	HI CONC	URBAN	CONTINUOUS	MONITORING EXTENDED COUNTY OF LARGE METROPOLITAN STATISTICAL AREA		SU 1/1/80, SANFORD MET
	28.746111,-81.310556	SLAMS	PM_{10}	R&P 1400AB	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 12/22/00
		SLAMS	$PM_{2.5}$	R&P 2025A	POPULATION	NBH	1/12 DAY	MONITORING EXTENDED COUNTY OF LARGE METROPOLITAN STATISTICAL AREA		SU 2/1/99
		SLAMS	$PM_{2.5}$	R&P 2025A	POPULATION	NBH	1/3 DAY	COLLOCATED		SU 2/1/99

METROPOLITAN STATISTICAL AREA: SARASOTA - BRADENTON - VENICE (MANATEE AND SARASOTA COUNTIES)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Manatee County										
081-0028	PORT MANATEE WITH 081-3002	SLAMS	SO_2	TELEDYNE 700	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 11/13
081-3002	PORT MANATEE	SPM	OZONE	2B 202	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 4/1/92, SLAMS 12/98 MET
	27.638611,-82.547778									TEMPORARILY SD 6/1/08 TO 7/09
081-4012	5502 33RD AVENUE W	SPM	OZONE	2B 202	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 2/99, SLAMS 12/98, GT BRAY MET
	27.475000,-82.618611									TEMPORARILY SD 6/08 TO 7/09
081-4013	5511 39TH STREET EAST	SPM	OZONE	2B 202	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 1/99, MET SLAMS 12/98
	27.449444,-82.522222									TEMPORARILY SD 6/1/08 TO 1/10
Sarasota County										
115-0013	BEE RIDGE PARK	SLAMS	$PM_{2.5}$	R&P 2025i	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION		SU 1/3/99, 1/3 DAY
	27.290556,-82.507222	SLAMS	$PM_{2.5}$	R&P 2025i	POPULATION	NBH	1/12 DAY	COLLOCATED		SU 1/3/99, 1/12 DAY
		SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 5/1/08
115-1005	LIDO PARK MCKINLEY DRIVE	SLAMS	OZONE	TEI 49C	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 5/31/12, NAMS 1/00 MET
	27.310000,-82.569722									
115-1006	4570 17TH STREET	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 5/16/11, NAMS 1/00 PAW PARK MET
	27.350000,-82.479444	SPM	NO_2	API T200	POPULATION	NBH	CONTINUOUS	ASSIST IN FORECASTING		SU 3/6/14
		SLAMS	PM_{10}	R&P 1400A	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 9/19/03, T, RH, PRECIP
115-2002	250 S JACKSON ROAD	SPM	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 9/1/03
	27.088333,-82.362222	SPM	$PM_{2.5}$	TEOM 1405A	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING		SU 4/1/09

METROPOLITAN STATISTICAL AREA: CAPE CORAL - FORT MYERS (LEE COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Lee County										
071-0005	FORT MYERS WTP	SLAMS	PM_{10}	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		REPLACED PM_{10} 1200 2/22/01
	26.601667,-81.878055	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION		SU 1/1/99
		SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	COLLOCATED		SU 1/1/99
		SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 12/10/08

071-2002	5505 ROSE GARDEN ROAD	SLAMS	OZONE	TECO 49i	HI CONC	URBAN	CONTINUOUS	USED FOR MAPPING		SU 5/7/01, CAPE CORAL
	26.548333,-81.981667									MOVED FROM 071-2001
071-3002	FORT MYERS BEACH	SLAMS	OZONE	TECO 49i	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 12/1/95, SCHOOL & BAY MET
	26.448889,-81.939444									BAY OAKS PARKS

METROPOLITAN STATISTICAL AREA: LAKELAND (POLK COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Polk County										
105-6005	SIKES ELEMENTARY SCHOOL	SLAMS	OZONE	TECO 49i	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 6/92, LAKELAND
	27.939444,-82.000278	SLAMS	SO_2	TEI 43i	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION		PWEI: 14,040
105-6006	FLORIDA BAPTIST CHILDRENS HOME	SLAMS	OZONE	TECO 49i	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 6/17/92, LAKELAND 2 MET
	28.028889,-81.972222	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION		SU 1/1/99, CO-LOCATED
		SPM	$PM_{2.5}$	TEOM	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 8/30/07
		SLAMS	PM_{10}	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 10/23/07

METROPOLITAN STATISTICAL AREA: DELTONA - DAYTONA BEACH - ORMOND BEACH (VOLUSIA COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Volusia County										
127-2001	5200 SPRUCE STREET	SLAMS	OZONE	TECO 49i	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/92, PORT ORANGE MET
	29.109722,-80.993611									
127-5002	1185-A DUNN AVENUE	SLAMS	OZONE	TECO 49i	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/92, DAYTONA MET
	29.206667,-81.052500	SLAMS	PM_{10}	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 6/26/98
		SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 01/04/99, CONT 12/20/07
		SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION		SU 2009
Flagler County										
001-3011	206 SAWGRASS ROAD	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		FLAGLER CO REC AREA, BUNNELL
	29.489083,-81.276833									

METROPOLITAN STATISTICAL AREA: PALM BAY - MELBOURNE - TITUSVILLE (BREVARD COUNTY)										
					MONITORING	SPATIAL	OPERATING			

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	OBJECTIVE	SCALE	SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Brevard County										
009-0007	401 FLORIDA AVENUE	SLAMS	OZONE	TECO 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 3/1/00, MELBOURNE MET
	28.053611,-80.628611	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION		SU 3/1/00
		SLAMS	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 10/25/07
		SLAMS	PM_{10}	TEOM	SOURCE	URBAN	CONTINUOUS	NEEDED BY REGULATION		MOVED FR FAY PARK SU 11/1/08
009-4001	400 S. 4TH STREET	SLAMS	OZONE	TECO 49i	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 9/15/88, COCOA BEACH MET
	28.311117,-80.614133									

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
METROPOLITAN STATISTICAL AREA: PENSACOLA - FERRY PASS - BRENT (ESCAMBIA AND SANTA ROSA COUNTIES)										
Escambia County										
033-0004	ELLYSON INDUSTRIAL PARK	SLAMS	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/75, MET
	30.525367,-87.20355	SLAMS	SO_2	TEI 43i	SOURCE	NBH	CONTINUOUS	USED TO SEE EFFECTIVENESS OF NEW REGULATIONS		SU 1/1/76
		SPM	$PM_{2.5}$	TEOM	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 2/98
		SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	TRANSPORT		SU 01/01/99, 1/3 COLLOCATED
033-0018	NAVAL AIR STATION PENSACOLA	SLAMS	OZONE	TEI 49i	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 10/21/80, MET
	30.36805,-87.270967									
Santa Rosa County										
113-0015	1500 WOODLAWN WAY, GULF BREEZE	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 3/9/05, WOODLAWN BEACH MIDDLE SCHOOL
	30.394133,-87.008033	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 2/19/08

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
METROPOLITAN STATISTICAL AREA: PORT ST. LUCIE - FT PIERCE (MARTIN AND ST LUCIE COUNTY)										
Martin County										
085-0007	STUART	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 6/11/10
	27.172458,-80.240689	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 6/11/10
St. Lucie County										
111-0013	SAVANAS	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 2/24/11
	27.389079,-80.311032									

METROPOLITAN AREA: TALLAHASSEE (LEON, JEFFERSON AND WAKULLA COUNTIES)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Leon County										
073-0012	TALLAHASSEE COMMUNITY COLLEGE	SLAMS	OZONE	TEI 49i	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 6/98, SLAMS 7/1/98 MET
	30.439722,-84.346389	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 1/1/99, FLOW RATE CHANGED FROM 3 TO 1 LPM 9/9/05.
		SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION		SU 1/1/99, COLLATED 1/12 DAY (2007) 1/1/02
		SPEC	SPEC. $PM_{2.5}$	METONE	POPULATION	NBH	1/6 DAY	PART OF THE CSN AT THE HIGHEST CONCENTRATION SITE		SU 1/2/02, SPECIATION
073-0013	MICCOSUKEE GREENWAYS	SLAMS	OZONE	TEI 49i	HI CONC	NBH	CONTINUOUS	USED FOR AQI	CLOSE	SU 9/15/00, MET
	30.484444,-84.199444									
Wakulla County										
129-0001	ST MARKS NATIONAL WILDLIFE REFUGE	SLAMS	OZONE	TEI 49i	REGIONAL TRANSPORT	URBAN	CONTINUOUS	NEEDED BY REGULATION		SU 4/16/01, MET
	30.0925,-84.161111	NCORE	NO_Y	T-API	BACKGROUND	URBAN	CONTINUOUS	RURAL NCORE		SU 9/3/15
		NCORE	CO_TL	T-API	BACKGROUND	URBAN	CONTINUOUS	RURAL NCORE		SU 4/26/15
		NCORE	SO_2_TL	T-API	BACKGROUND	URBAN	CONTINUOUS	RURAL NCORE		SU 2/19/15
		NCORE	$PM_{2.5}$	TEOM	BACKGROUND	URBAN	CONTINUOUS	RURAL NCORE		SU 1/6/15
										WITH IMPROVE FOR SPECIATION

METROPOLITAN STATISTICAL AREA: NAPLES - MARCO ISLAND (COLLIER COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Collier County										
021-0004	LAUREL OAK ELEMENTARY	SPM	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	MONITORING GROWTH IMPACT		SU 9/26/01, MET
	26.269722,-81.711111	SPM	$PM_{2.5}$	TEOM	POPULATION	URBAN	CONTINUOUS	MONITORING GROWTH IMPACT		SU 3/2/05

METROPOLITAN STATISTICAL AREA: OCALA (MARION COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Marion County										
083-0003	SE 17TH STREET & SE 30TH AVENUE	SLAMS	OZONE	TEI 49i	HI CONC	NBH	CONTINUOUS	MONITORING GROWTH IMPACT		SU 5/98, YMCA MET, SLAMS 7/1/98
	29.171389,-82.094722	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 1/07/99, CONT. 11/27/07
083-0004	692 NW 30TH AVENUE	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 11/8/00, MET SHERIFF'S DEPARTMENT IMPOUND
	29.192778,-82.173056									

METROPOLITAN STATISTICAL AREA: GAINESVILLE (ALACHUA AND GILCHRIST COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Alachua County										
001-0023	5400 NW 43RD STREET	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	TRENDS MONITORING		SU 1/9/99
	29.706111,-82.387778	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/12 DAY	COLLOCATED		SU 10/3/99
001-3011	100 SAVANNAH BOULEVARD	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 8/1/97, SLAMS 7/1/98
	29.544722,-82.296111	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	USED FOR AQI		MET PAYNES PRAIRIE

METROPOLITAN STATISTICAL AREA: FORT WALTON BEACH - CRESTVIEW - DESTIN (OKALOOSA COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Okaloosa County										
091-0002	720 LOVEJOY ROAD NW	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 12/1/08, MARY ESTHER
	30.426533,-86.666217	SPM	PM_{10}	TEOM	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 2/1/13

METROPOLITAN STATISTICAL AREA: PANAMA CITY - LYNN HAVEN (BAY COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Bay County										
005-0006	ST ANDREWS PARK	SLAMS	OZONE	TEI 49i	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION		SU 7/13/00, MET
	30.130433,-85.731517	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	USED FOR AQI		SU 2/09

METROPOLITAN STATISTICAL AREA - SEBRING (HIGHLANDS COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Highlands County										
055-0003	123 MAIN DRIVE	SPM	OZONE	TEI 49i	BACKGROUND	REGIONAL	CONTINUOUS	REGIONAL BACKGROUND		SU 6/14/01
	27.187500,-81.339444									

MICROPOLITAN STATISTICAL AREA: PALATKA (PUTNAM COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Putnam County										
107-1008	COMFORT ROAD	SLAMS	SO_2	TEI 43i	SOURCE	NBH	CONTINUOUS	SOURCE MONITORING		SU 8/15/91, BARGE PORT

	29.686667,-81.656389	SLAMS	PM_{10}	TEOM	SOURCE	NBH	CONTINUOUS	SOURCE MONITORING		SU 8/28/02, TEOM 12/13/02

MICROPOLITAN STATISTICAL AREA: LAKE CITY (COLUMBIA COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Lake County										
023-0002	VETERAN'S DOMICILE	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	MONITOR IMPACT OF HIGH TRAFFIC		SU 11/1/00, VETERAN'S DOMICILE MET
	30.178056,-82.619167	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	RURAL MONITORING		SU 5/17/07

MICROPOLITAN STATISTICAL AREA: HOMOSASSA SPRINGS (CITRUS COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Citrus County										
017-0005	POWER LINE ROAD	SPM	$PM_{2.5}$	R&P 2025	POPULATION	URBAN	1/3 DAY	MONITORING GROWTH IMPACT	CLOSE	SU 3/4/99 RUN FOR FL POWER CORP BY AMBIENT AIR SERVICES SD 12/15
	28.980556,-82.700000	SPM	$PM_{2.5}$	R&P 2025	POPULATION	URBAN	1/12 DAY	COLLOCATED	CLOSE	CRYSTAL RIVER
017-0006	W POWER LINE ROAD	SLAMS	SO_2	TEI 43i	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION		PWEI: 14,903
	28.958372,-82.643094	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	RURAL MONITORING	ADD	SU 10/13

NOT IN A METROPOLITAN STATISTICAL AREA										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
Holmes County										
059-0004	BONIFAY AIRPORT	SPM	OZONE	TEI 49i	BACKGROUND	REGION	CONTINUOUS	REGIONAL BACKGROUND	RELOCATION	SU 9/1/96, MET
	30.848611,-85.603889	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	REGIONAL BACKGROUND	RELOCATION	SU 6/14/07
Hamilton County										
047-0015	CR 137	SLAMS	SO_2	TEI 43i	SOURCE	MIDDLE	CONTINUOUS	SOURCE MONITORING		SU 9/18/82, WHITE SPRINGS, OXYCHEM
	30.426111,-82.795278	SPM	$PM_{2.5}$	TEOM	SOURCE	NBH	CONTINUOUS	RURAL MONITORING		SLAMS 4/27/92, MET TEOM 11/6/01, $PM_{2.5}$ TEOM 5/17/07

IMPROVE NETWORK										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	CHANGES	COMMENTS
129-0001	ST MARKS NATIONAL WILDLIFE REFUGE	SPM	$PM_{2.5}$	IMPROVE	BACKGROUND	URBAN	1/3 DAY	NEEDED BY REGULATION		SU 2000
	CHASSAHOWITZKA NATIONAL WILDLIFE REFUGE	SPM	$PM_{2.5}$	IMPROVE	TRANSPORT	URBAN	1/3 DAY	NEEDED BY REGULATION		SU 1993

086-0030	EVERGLADES NATIONAL PARK	SPM	$PM_{2.5}$	IMPROVE	BACKGROUND	URBAN	1/3 DAY	NEEDED BY REGULATION		SU 1988

List of abbreviations:

AQI	Air Quality Index
CO	Carbon Monoxide
FRM	Federal Reference Method
HI CONC	High Concentration
MET	Implies that wind speed and wind direction instruments are on site
NAMS	National Air Monitoring Stations
NBH	Neighborhood
NCORE	Proposed NCore
NO_2	Nitrogen Dioxide
NON-REG	Non-regulatory Monitoring
$PM_{2.5}$	Particulate matter with aerodynamic diameter of 2.5 micro meter
PM_{10}	Particulate matter with aerodynamic diameter of 10 micro meter
SLAMS	State and Local Air Monitoring Stations
SO_2	Sulfur Dioxide
SPM	Special Purpose Monitors
S SPEC	Supplemental Speciation
SU	Start Up
TREND	Speciation Trends Network
VOC	Volatile Organic Compound

Table 9. 2016 Monitoring Requirements

Florida Network Monitoring Requirements Metropolitan Statistical Areas	2015 Population Estimates	$PM_{2.5}$ Annual DV	$PM_{2.5}$ 24 hour DV	General $PM_{2.5}$ Monitors Req.	Coll. Cont. $PM_{2.5}$	Road side $PM_{2.5}$ Req. [10]	Ozone Design Value	Ozone Req.	PM_{10} Compare to Med Cut Pt	PM_{10} Req.	N-Core	Lead Req. [2]	SO_2 PEWI 2012 NEI	PEWI SO_2 Req. [3]	Road side NO_2 [4, 5]	Comm.-wide NO_2 [6]	RA 40 NO_2 [7]	Road side CO Req. [8]
Miami-Fort Lauderdale-West Palm Beach (Broward, Miami-Dade and Palm Beach counties)	6,012,331	6	13	2			63	3	125	4	1		147,762	2	2	1		
Tampa-St. Petersburg-Clearwater (Hernando, Hillsborough, Pasco and Pinellas counties)	2,975,225	6.8	15	2	1		69	3	77	3	1	2	94,280	2	2	1		1
Orlando-Kissimmee-Sanford (Lake Orange, Osceola and Seminole counties)	2,387,138	6.2	14	2	1	1	63	2	70	2			13,157	1	1	1		1
Jacksonville (Baker, Clay, Duval, Nassau and St. Johns counties)	1,449,481	7.7	17	2	1	1	63	2	119	2			32,408	1	1	1		1
North Port-Bradenton-Sarasota (Manatee and Sarasota counties)	768,918	6.1	16	1	1		65	2	73	1			5,030	1	1			
Lakeland	650,092	6.5	14	1	1		63	2	57	1			10,666	1	1			
Cape Coral-Fort Myers	701,982	5.9	14	1	1		62	2	56	1			770		1			
Deltona-Daytona Beach-Ormond Beach (Volusia and Flagler counties)	623,279	6.1	15	1	1		60	2	51	1			252 [11]		1			
Palm Bay-Melbourne-Titusville	558,088	5.6	16	1	1		61	2	76	1			3,003		1			
Pensacola-Ferry Pass-Brent	478,043	7.7	16				65	2	< 120	0			13,122	1				
Port St. Lucie-Fort Pierce (Martin and St. Lucie counties)	454,846	8.0 [1]	18 [9,1]				60 [1]	2	< 120	0			3,780					
Tallahassee (Gadsden, Jefferson, Leon and Wakulla counties)	377,924	8.4	20				60	2	< 120	0			170					
Naples-Marco Island	357,305	8.2 [9]	18 [9]				58		< 120	0			109					
Ocala	343,254	8.8 [9]	17 [9]				61	1	< 120	0			101					
Gainesville	277,163	6.5 [1]	15 [1]				59		< 120	0			1,601					
Crestview-Fort Walton Beach-Destin (Okaloosa and Walton counties)	321,550	< 10	< 29				62	1	178	1			28					
Panama City-Lynn Haven (Bay and Gulf counties)	197,506	8.6 [9]	18 [9]				63	1	< 120	0			2,437					
Punta Gorda (Charlotte County)	173,115	<10	< 29						< 120	0			21					
Sebastian-Vero Beach (Indian River County)	147,919	< 10	< 29						< 120	0			15					
Homosassa Springs (Citrus County)	141,058	6.2	14						< 120				9,456	1				
The Villages (Sumter County)	118,891								< 120				11					
Sebring (Highlands County)	99,491			0			59		< 120				41					

Note:
$PM_{2.5}$ Design Value (DV) cut-point: Annual-10.2
Daily-29.75
Ozone DV cut-point: 59.5
PM_{10} Medium cut-point: 120

Note: PM_{10}, $PM_{2.5}$ and Ozone are based on Metropolitan Statistical Areas

1 - Based on incomplete data

2 - Source lead monitors must be in the Air Monitoring Network Plan by July 1, 2011, and in operation by December 27, 2011.

3 - Required SO_2 monitors must be in the Air Monitoring Network Plan by July 1, 2011, and in operation by January 1, 2013.

4 - NO_2 near-road in CBSAs with populations of 1 million or more shall be in the Air Monitoring Network Plan by July 1, 2012, and be operational by January 1, 2014; the second in CBSAs with populations of 2.5 million or roadway segments with 250,000 AADT must be in the Air Monitoring Network Plan by July 1, 2014, and in operation by January 1, 2015.

5 - NO_2 near-road monitors in CBSAs with populations of 500,000 or more but less than 1 million must be in the Air Monitoring Network Plan by July 1, 2016, and must be operational by January 1, 2017.

6 - NO_2 area-wide monitors must in the Air Monitoring Network Plan by July 1, 2012, and in operation by January 1, 2013.

7 - NO_2 vulnerable and susceptible monitors (RA 40 - Regional Administrator 40) must be in the Air Monitoring Network Plan by July 1, 2012, and in operation by January 1, 2013.

8 - CO near-road monitors in CBSAs with populations of 2.5 million people or more must be in the Air Monitoring Network Plan by July 1, 2014, and in operation by January 1, 2015; in CBSAs with populations of 1 million or more, but less than 2.5 million, monitors must be in the Air Monitoring Network Plan by July 1, 2016, and in operation by January 1, 2017.

9 - Based on non-FRM data.

10 - $PM_{2.5}$ near-road in CBSAs with populations of 2.5 million or more must be in the Air Monitoring Network Plan by July 1, 2014, and operational by January 1, 2015; in CBSAs with populations of 1 million or more but less than 2.5 million, monitors must be in the Air Monitoring Network Plan by July 1, 2016, and operational by January 1, 2017.

11 - PWEI includes 9 from Flagler County.

GLOSSARY OF AIR TERMS

AADT	Annual Average Daily Traffic
AQI	Air Quality Index – EPA's standardized method of reporting air quality information and forecast to the public.
AQS	Air Quality System – EPA's repository of ambient air quality data.
BAM	Beta Attenuation Mass Monitor – a type of continuous $PM_{2.5}$ monitor.
CBSA	Core Based Statistical Area – a collective term for both Metropolitan (metro) and micropolitan (micro) statistical areas.
CFR	Code of Federal Regulations
CO	Carbon monoxide – an odorless, colorless gaseous; one of the "Six Common Air Pollutants," also known as "Criteria Pollutants," regulated by EPA.
FE-AADT	Fleet Equivalent Annual Average Daily Traffic – a value calculated according to the NO_2 near-road technical assistance document, which weighs heavy-duty traffic 10 times more than other vehicles.
FEM	Federal Equivalence Method – method approved for comparison to NAAQS.
FRM	Federal Reference Method – method approved for comparison to NAAQS.
IMPROVE	Interagency Monitoring of Protected Visual Environments
MSA	Metropolitan Statistical Area – a "geographic entity defined by the U.S. Office of Management and Budget (OMB) for use by federal statistical agencies in collecting, tabulating, and publishing Federal statistics." A MSA consists of a core urban area of at least 50,000 people.
NAAQS	National Ambient Air Quality Standards – maximum threshold concentrations above which adverse health effects may occur. EPA established NAAQS for Criteria Pollutants based on the 1970 Clean Air Act.
NATTS	National Air Toxics Trends Stations
NCore	National Core multi-pollutant monitoring stations – a collection of monitors that integrates several advanced measurement systems for particles, pollutant gases and meteorology.
NEI	National Emissions Inventory
NO	Nitrogen oxide
NO_2	Nitrogen dioxide – a by-product of incomplete combustion that is intimately involved in photochemistry and ozone formation, as well as acid rain formation.
NO_x	A measure of total oxides of nitrogen, consisting primarily of nitrogen dioxide (NO_2) and nitric oxide (NO).
NO_y	Total reactive nitrogen – a collective name for oxidized forms of nitrogen in the atmosphere, such as nitric oxide (NO), nitrogen dioxide (NO_2), nitric acid (HNO_3) and organic nitrates.
O_3	Ozone – a gaseous pollutant and a component of smog at ground level; one of the "Six Common Air Pollutants," also known as "Criteria Pollutants," regulated by EPA.
PAMS	Photochemical Assessment Monitoring Station
PM	Particulate Matter – also known as particle pollution.
$PM_{2.5}$	Particulate Matter 2.5 micrometers in diameter and smaller.
PM_{10}	Particulate Matter 10 micrometers in diameter and smaller.
$PM_{10-2.5}$	Particle size between 10 and 2.5.
PQAO	Primary Quality Assurance Organization
PWEI	Population Weighed Emissions Index
PSD	Prevention of Significant Deterioration
SIP	State Implementation Plan
SLAMS	State and Local Air Monitor Stations
SO_2	Sulfur dioxide
SPM	Special Purpose Monitors
STN	Speciation Trends Network

APPENDICES

Appendix A: Network Modifications

DEP submitted its 2015 annual Air Monitoring Network Plan to EPA on July 1, 2015, for review and approval. After completing its review, EPA approved Florida's Air Monitoring Network Plan on October 29, 2015, with the exception of three monitoring sites (two near-road monitoring sites and one source-oriented SO_2 site). EPA requested DEP submit additional information for a full evaluation of the three sites. Appendix A addresses that request and provides information on sites that require network changes.

Appendix B: SLAMS to SPM

DEP is requesting to reassign several monitors from SLAMS to SPM. Specifically, the monitors meet the criteria of 40 CFR Part 58.14(c):

- The monitors have shown attainment for the previous five years, with concentrations below the NAAQS.
- Calculations of the monitoring data provide that there is less than a 10 percent probability of the monitor exceeding 80 percent of the NAAQS over the next three years.
- The monitors are not specifically required by an attainment or maintenance plan.

The monitor listings are provided in Appendix B.

Appendix C: Siting Issues

Each site is evaluated annually by DEP audit staff to determine if the siting requirements in 40 CFR Part 58 are met. Issues that are identified are resolved as quickly as practicable. Appendix C contains the Annual Site Review Summary for Florida's air monitoring network.

Appendix D: Ambient Monitoring Waivers

Waivers are allowed from some monitoring requirements in 40 CFR Part 58, Appendix D. Waiver provisions to deviate from a specific siting criteria are in 40 CFR Part 58, Appendix D. Requests and reasons for waivers from ambient monitoring and siting criteria are in Appendix D.

Appendix E: Ambient Monitoring Inventory

EPA requires an evaluation of the agency's ambient monitors and auxiliary support equipment. The condition of inventory should be categorized as "Good," "Fair" or "Poor," and indicate equipment not in everyday use (e.g. spare or back up). The ambient monitoring equipment inventories for Florida's monitoring agencies are provided in Appendix E.

APPENDIX A

Network Modifications

Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
www.dep.state.fl.us

Additional Network Information

The Florida Department of Environmental Protection (DEP) submitted the 2015 Annual Air Monitoring Network Plan to the U.S. Environmental Protection Agency (EPA) on July 1, 2015, for review and approval. After completing its review, EPA approved the plan on October 29, 2015, with the exception of three monitoring sites (two near-road monitoring sites and one source-oriented SO_2 site). EPA requested DEP submit additional information for a full evaluation of the three sites.

This Appendix is provided to address that request and to provide information on sites that require network changes. Table 1 provides a summary of the sites where additional information is provided or where site changes are required.

Table 1. List of Sites Requiring Additional Information or Changes

AQS Site #	Name	Parameters	Action
12-086-0035	Perimeter Road	Near-road NO_2	Additional information provided
12-103-0027	Sawgrass Lake Parkway	Near-road NO_2	Additional information provided
12-057-0113	Munro Street	Near-road NO_2	Addition
12-057-1111	Julian B. Lane Park	Near-road NO_2	Close
12-017-0006	Crystal River Preserve	SO_2 and Continuous $PM_{2.5}$	Additional information provided
12-086-0019	Pennsuco	SO_2	Monitoring objective change
12-099-0021	Lantana Preserve	Ozone, PM_{10} and NO_2	Combined dataset request
12-011-0010	Lincoln Park	SO_2, CO, PM_{10} and Toxics	Close
12-073-0013	Miccosukee Greenway	Ozone	Close
12-011-5005	Coconut Creek Park	PM_{10} and $PM_{2.5}$	Relocation
12-099-0009	Royal Palm Beach	Ozone, $PM_{2.5}$ and Continuous $PM_{2.5}$	Close
12-099-0022	Lamstein Lane	Ozone and $PM_{2.5}$	Addition
12-059-0004	Bonifay	Ozone and Continuous $PM_{2.5}$	Relocation

NO_2 Near-Road Monitoring

The information in Tables 2 - 4 and Figures 1 - 21 is provided in accordance with 40 CFR Part 58.10(b) and the Near-Road NO_2 Monitoring Technical Assistance Document, for full evaluation of the Miami Site, AQS Site #12-086-0035, and Largo Site, AQS Site #12-103-0027.

The Near-Road NO_2 Monitoring Technical Assistance Document briefly describes how siting for the second near-road NO_2 location would differ from the first to go into a Core Based Statistical Area (CBSA) with a population of over 2.5 million, as is the case for the Miami and Largo sites. EPA prescribes that these second near-road NO_2 monitoring locations be selected so that sites are differentiated from the first near-road NO_2 monitoring site by one or more factors affecting traffic emissions and/or pollutant transport (such as fleet mix, congestion patterns, terrain or geographic area within the CBSA), or by a different route, interstate or freeway designation.

Data gathered to select the initial near-road NO_2 monitoring site will be very useful in determining where to place a second site. EPA's primary recommendation for a second site is to attempt to have the location represent as many different characteristics from the first site without sacrificing the objective of measuring relative peak NO_2 concentrations in the near-road environment. In some cases, this could allow for the consideration of sites that may have characteristics that make the location more unique.

Table 2. NO_2 Near-Road Sites for Miami and Largo

	Perimeter Road	Sawgrass Lake Parkway
AQS Site #	12-086-0035	12-103-0027
City (CBSA)	Miami	Largo
Location Latitude	25.785466	27.83440925
Location Longitude	-80.284325	-82.66525125
Address	1395 NW 57th Avenue	7400 25th Street North
Target	Bridge No. 870135 to Bridge number 870138 (FDOT site #872198)	Interstate 275, south of Gandy Boulevard
AADT	197,000 (FDOT 2013)[1]	141,000 (FDOT 2012)[1]
Heavy Duty AADT	58,035 (FDOT 2013)[1]	91,650 (FDOT 2012)[1]
FEAADT	248,534	223,485
NO_2	Chemiluminescent TEI-42i	T500U Direct Measure
Objective	Mobile Source	Mobile Source
Spatial Scale	Micro	Micro
Operating Schedule	Continuous	Continuous
Distance to Traffic Lane	23.7 meters to traffic lane	25.9 meters to traffic lane
Access	Unlimited	Unlimited
Owner of Land	Florida Department of Transportation - MDX	Southwest Florida Water Management District and Pinellas County
Other Monitored Parameters	Trace CO (TEI-48i)	CO (API T300U), Black Carbon (API 633)
Expected Inlet Height	4.57 meters	4 meters
Comments	Five trees with yellow bands in pictures were removed – no obstructions	No structures influence the site – no obstructions

[1] Annual Average Daily Traffic (AADT) data obtained from the Florida Department of Transportation (FDOT) website at http://www2.dot.state.fl.us/FloridaTrafficOnline/viewer.html.

Miami Near-Road Site – Perimeter Road

Table 3 provides road segment rankings for Miami-Dade County. The segment ultimately selected was ranked 17th due to the similarities of the higher ranked segments to the Broward County near-road NO_2 site, which is on Interstate 95. The selected location is near the airport and offers a different fleet mix, congestion pattern and most importantly, a different highway.

Table 3. Miami-Dade County Road Segment Rankings

Road Segment	AADT	AADT Rank	Heavy Duty AADT	Heavy Duty Rank	FE-AADT	FE-AADT Rank
On Ramp 87270191 to Bridge No-870435	266,000	1	18,112	1	447,116	1
Bridge No-870435 to Bridge No-870437	265,000	2	18,112	2	446,116	2
Bridge No-870344 to I-95 SB Flyover	261,000	3	18,112	3	442,116	3
Off Ramp 87270184 to On Ramp 87270191	258,000	4	18,112	4	439,116	4
Bridge No-870437 to Bridge No-870344	245,000	5	18,112	5	426,116	5
Off Ramp 87270184	242,000	6	18,112	6	423,116	6
Dade/Broward County Line	234,000	8	18,112	7	415,116	7
I-95 SB Flyover to Bridge No-870352	209,000	11	18,112	8	390,116	8
N/A	207,000	12	18,112	9	388,116	9
Bridge No-870455	194,500	15	18,112	10	375,616	10
Bridge No-870352	175,000	16	18,112	11	356,116	11
Dade County Line to Bridge No-860529	227,000	9	12,604	13	353,036	12
Bridge No-870356 to Bridge No-870455	162,000	17	18,112	12	343,116	13
NW 58 Street to Bridge No-870455	236,000	7	2,986	16	265,862	14
Bridge No-870778	224,000	10	2,986	17	253,862	15
Bridge No-870060	199,000	13	5,153	14	250,534	16
Bridge No-870135 to Bridge No-870138	197,000	14	5,153	15	248,534	17

Figure 1. North from Miami Site

Figure 2. Northeast from Miami Site

Figure 3. East from Miami Site

Figure 4. Southeast from Miami Site

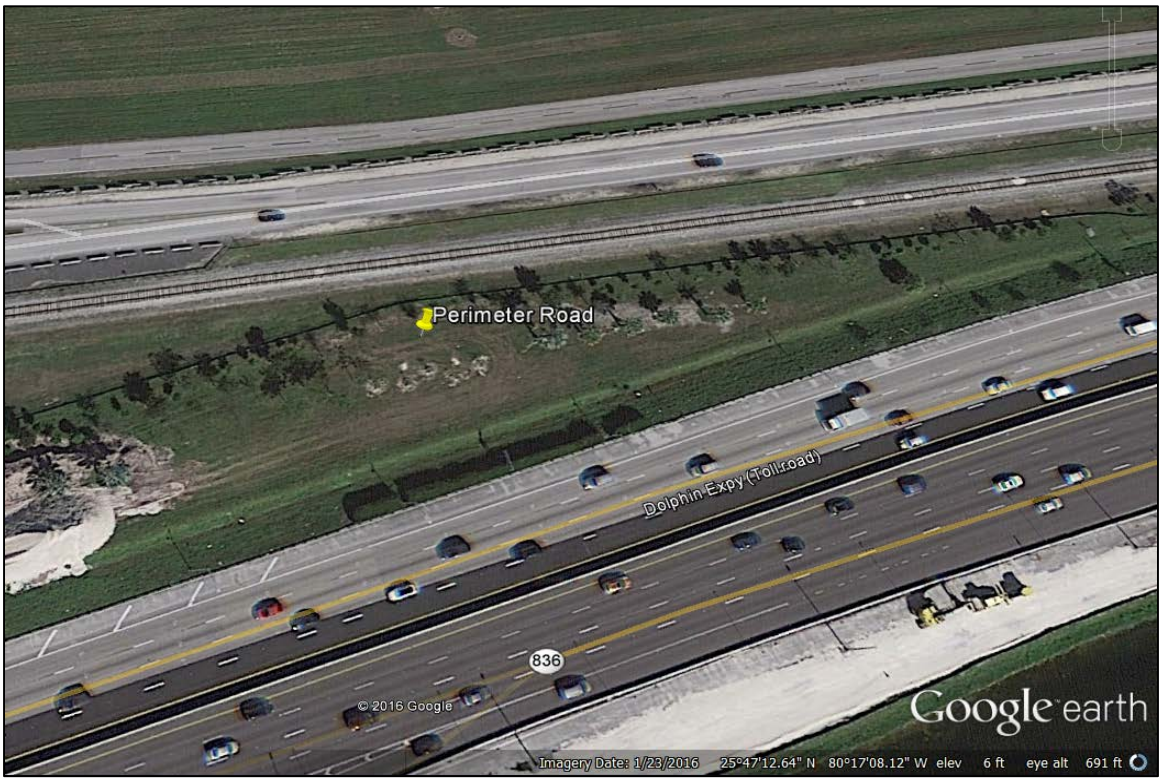
Figure 5. South from Miami Site

Figure 6. Southwest from Miami Site

Figure 7. West from Miami Site

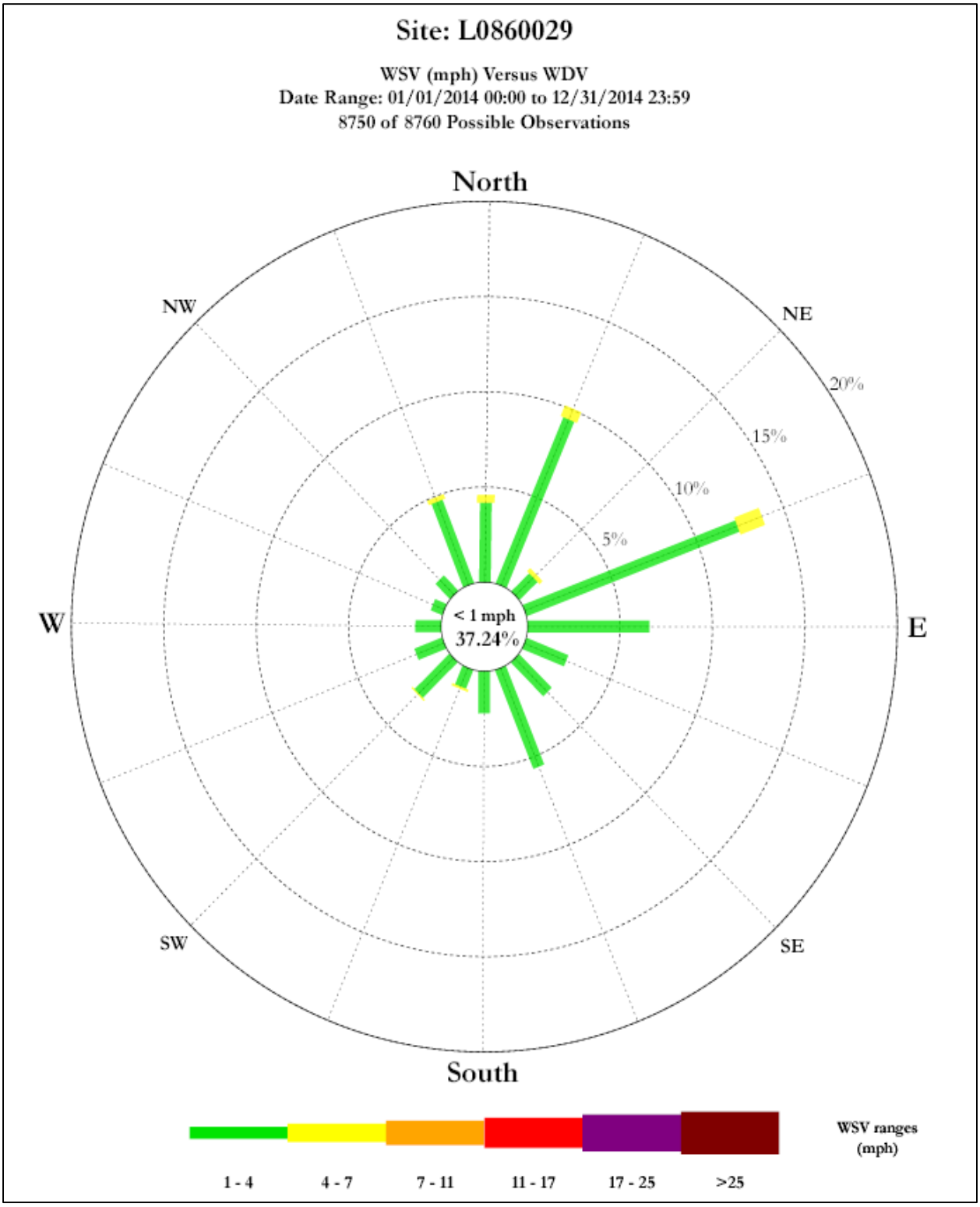
Figure 8. Northwest from Miami Site

Figure 9. Aerial for Miami Near-Road Site



Note: This site has no obstructions

Figure 10. Wind Rose for the Miami Near-Road Site, AQS Site #12-086-0035, 21.5 km south-southwest to AQS Site #12-086-0029



Largo Near-Road Site – Sawgrass Lake Parkway

Table 4 provides road segment rankings for Pinellas County. The segment ultimately selected was the highest ranked segment for the county. While both Pinellas and Hillsborough counties sites are on Interstate 275, the selected location in Pinellas County is not on an elevated portion of highway and will provide a different monitoring condition.

Table 4. Pinellas County Road Segment Rankings

Road Segment	AADT	AADT Rank	Heavy Duty AADT	Heavy Duty Rank	FE-AADT	FE-AADT Rank
I-275 S of Gandy Boulevard	141,000	5	9,165	1	223,485	1
I-275 22nd Avenue N/5th Avenue S	148,000	2	5,180	7	194,620	4
I-275 at 4th Street N	142,500	4	8,265	2	216,885	2
I-275 between 54th Avenue N/38th Avenue N	152,000	1	6,536	4	210,824	3
I-275 between 38th Avenue N/22nd Ave N	147,000	3	4,410	10	486,690	5
I-275 Ulmerton	114,500	8	7,901	3	185,609	6
I-275 at Central Avenue	119,000	7	5,474	5	168,266	7
I-275 N of Gandy Boulevard	119,500	6	4,660	7	161,449	8
I-275 N of Roosevelt	99,500	9	5,473	6	148,757	9
I-275 at 9th Avenue S	96,000	10	4,608	9	137,472	10
I-275 at 15th Avenue S	95,400	11	4,347	11	133,623	11

Figure 11. North from Largo Site

Figure 12. Northeast from Largo Site

Figure 13. East from Largo Site

Figure 14. Southeast from Largo Site

Figure 15. South from Largo Site

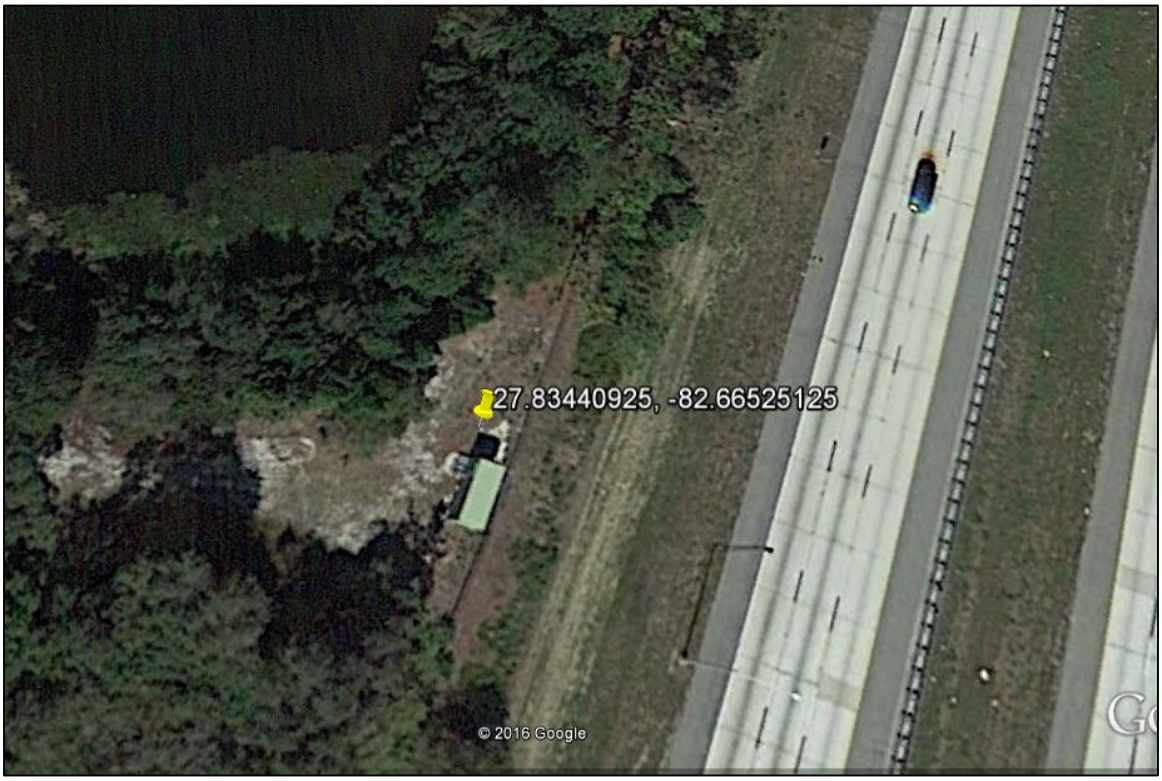
Figure 16. Southwest from Largo Site

Figure 17. West from Largo Site

Figure 18. Northwest from Largo Site

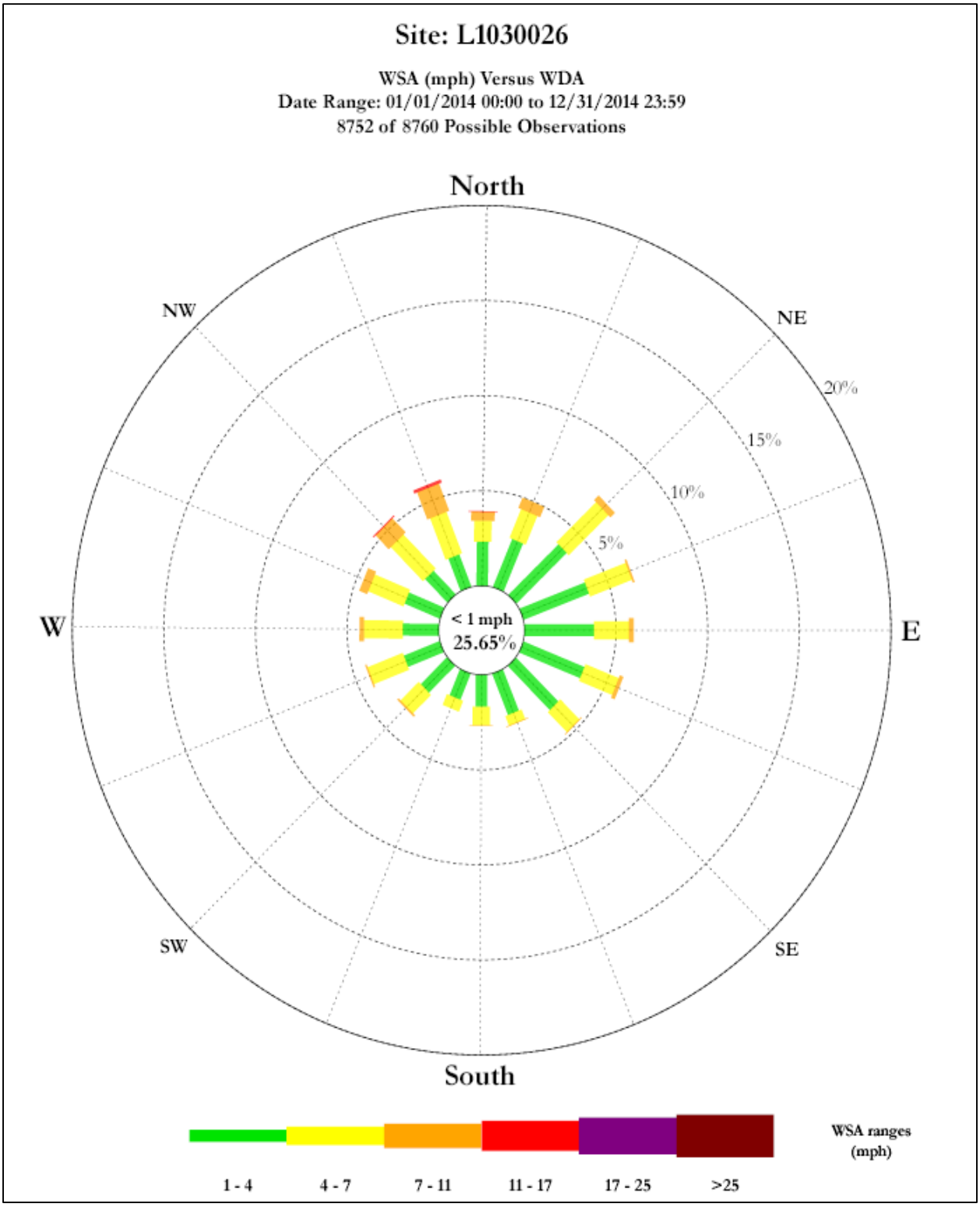
Figure 19. Largo Site

Figure 20. Aerial for Largo Site



Note: This site has no obstructions.

Figure 21. Wind Rose for the Largo Near-Road Site, AQS Site #12-103-0028, 5.7 km Due West to AQS Site #12-103-0026



Munro Street Near-Road Site

The original near-road NO_2 site in Tampa, AQS Site #12-057-1111, was located on Julian B. Lane Park, owned by the City of Tampa. The City announced plans to build a road on the property and requested Hillsborough Environmental Protection Commission (HEPC) move the NO_2 site. HEPC complied with the request and moved the site 264 yards west of the original site, which allows access to monitor the same segment of Interstate 275. The original site was selected with EPA's input and the Near-Road Technical Assistance Document was developed, in part, with what was learned in siting this monitor. The new location was as close as possible to the original, maintaining the same road segment, road design, congestion patterns and fleet mix.

In consultation with EPA, a new site name, Munro Street, and AQS Site #12-057-0113, were given to the location based on the following factors: (a) the new site will be 40 meters from the nearest edge of the roadway of Interstate 275, whereas AQS Site #12-057-1111 was 19.5 meters to the roadway edge, (b) the new site will have an off-ramp between it and the interstate, which may create a step function drop in NO_2 concentrations; and (c) to ensure that the metadata in AQS is not over-written, the new AQS number will maintain the supporting information for the concentration record. DEP requests that the datasets for these sites be combined for data completeness if the concentrations demonstrate it is appropriate. Other details of the new location are provided in Table 5 and Figures 22 - 30.

Table 5. NO_2 Near-Road Site for Munro Street Site, AQS Site #12-057-0113

Munro Street Near-Road Site	
AQS Site #	12-057-0113
City (CBSA)	Tampa
Site Name	Munro Street
Location Latitude	27.95555
Location Longitude	-82.46714
Address	Munro Street
Target	I-275 West of Ashley Street
AADT	190,500 (FDOT-2011) [1]
Heavy Duty AADT	15,240 (FDOT-2011) [1]
FEAADT	327,660
NO_2	Photolytic
Objective	Mobile Source
Spatial Scale	Micro
Operating Schedule	Continuous
Distance to Traffic Lane	40 meters
Access	Unlimited
Owner of Land	City of Tampa
Other Monitored Parameters	Trace CO (T-API), Continuous $PM_{2.5}$ FEM (TEI 5014i), Ultra-fine Particle Counter (TAPI), Black Carbon Aethalometer (Teledyne -API), wind at 5 and 10 meters
Expected Inlet Height	4.33 meters (wall height is 24', probe height is 15')
Comments	Interstate is east-west oriented on this segment; site is south of the road. The road surface is ~16' above grade with an 8' sound barrier.

[1] Annual Average Daily Traffic (AADT) data obtained from the Florida Department of Transportation (FDOT) website at http://www2.dot.state.fl.us/FloridaTrafficOnline/viewer.html.

Figure 22. North from Munro Street Site

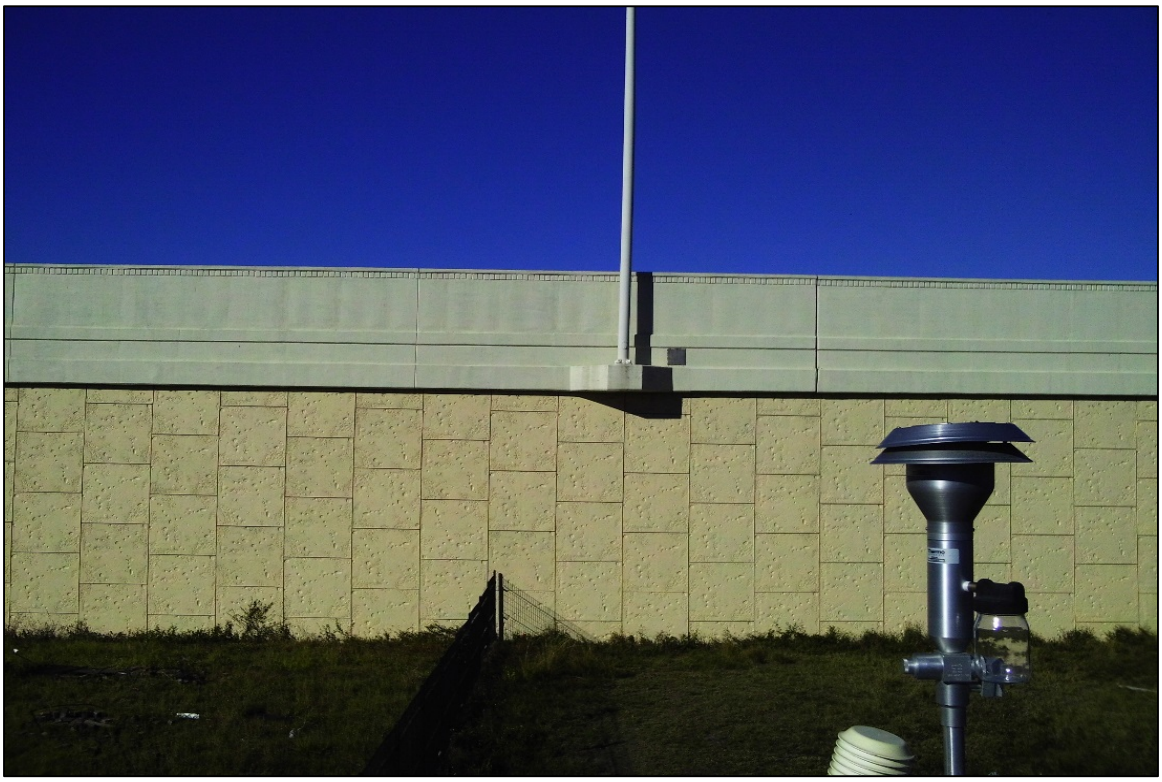


Figure 23. Northeast from Munro Street Site

Figure 24. East from Munro Street Site

Figure 25. Southeast from Munro Street Site

Figure 26. South from Munro Street Site

Figure 27. Southwest from Munro Street Site

Figure 28. West from Munro Street Site

Figure 29. Northwest from Munro Street Site

Figure 30. Aerial of Munro Street Site

Note: This site has no obstructions.

SO_2 Monitoring

In response to a change in the SO_2 National Ambient Air Quality Standards (NAAQS), three additional SO_2 sites were identified in Florida's 2013 Annual Air Monitoring Network Plan. SO_2 monitors were added to existing sites in Polk and Manatee counties, and a new site was established at Crystal River Preserve State Park in Citrus County. All three monitoring sites were operational prior to the January 1, 2014, deadline.

The new standard required ambient SO_2 monitoring for Core Based Statistical Areas (CBSAs) with a Population Weighted Emission Index (PWEI) above 5,000. A PWEI is the product of the population of the CBSA and the SO_2 emissions divided by one million with a unit of million persons-tons per year. A single monitor is required when the PWEI is above 5,000 and two monitors are required when the PWEI is above 100,000. The PWEI values used were provided by EPA. The PWEI for Citrus County was calculated at 9,456, requiring that one SO_2 monitor be sited in the county.

The information below and in Table 6 and Figures 31–37 is provided for full evaluation of the Crystal River Preserve Site in accordance with 40CFR Part 58.10(b) and the SO_2 NAAQS Designations Source-Oriented Monitoring Technical Assistance Document.

Emission Sources/Existing Monitoring:

In Citrus County, there is one dominant SO_2 source, the Duke Energy Power Plant. The facility conducted on-site monitoring for many years, and prior to the change in the SO_2 NAAQS, concentrations were below the standard. This existing monitoring indicated that once the SO_2 standard was tightened, concentrations levels would exceed the new NAAQS. As a result, DEP's Division of Air Resource Management located an ambient air quality SO_2 monitor appropriate for source monitoring for this facility.

Modeling/Meteorological Data/Geographic Influences

When the area was modeled, local wind history was not available and modeling was completed with two datasets for wind, one from Tampa and one from Hernando County. Since the wind plays such a dominant role in ambient concentrations and neither of the datasets were representative of a coastal location on the northern Gulf of Mexico, the modeling was not the primary guide for locating the site. The leading factor in the placement of the Crystal River Preserve Site, AQS Site #12-017-0006, was the known location of a monitor on the plant's property that showed elevated SO_2 concentrations. The final location would have to meet the needs of the ambient monitor for space, power and being free from obstructions. The Crystal River Preserve Site was 203 meters southwest of the known location of the elevated concentrations. The inlet is 3.65 meters and meets the requirements of 40 CFR, Part 58, Appendices A, C, D and E.

Crystal River Preserve Site - AQS Site #12-017-0006

Table 6. Crystal River Preserve SO_2 Site, AQS Site #12-017-0006

Crystal River Preserve	
AQS Site #	12-017-0006
City (CBSA)	Homosassa Springs
Site Name	Crystal River Preserve
Statement of Purpose	Needed by Regulation
Site Review Date	August 19, 2015
County	Citrus
Location Latitude	28.9586
Location Longitude	-82.643159
Address	13450 W. Power Line Road
Objective	Industrial Source
Pollutants Monitored	SO_2 and $PM_{2.5}$
Sampling and Analysis Method	SO_2 (Thermo 43C, Pulsed Fluorescence), $PM_{2.5}$ (R&P 1400AB, Gravimetric Analysis)
Spatial Scale	Neighborhood
Operating Schedule	Continuous
Network Type	SO_2: SLAMS; $PM_{2.5:}$ SPM
Distance from Inlet to nearest:	Tree Dripline = 20 meters Road = 50 meters Wall = N/A
Access	Limited to park's hours of operation
Owner of Land	DEP (Florida State Park)
Inlet Height	3.65 meters
Comments	No structures influence the site

Figure 31. North from Crystal River Preserve Site

Figure 32. East from Crystal River Preserve Site

Figure 33. South from Crystal River Preserve Site

Figure 34. West from Crystal River Preserve Site

Figure 35. Crystal River Preserve Site

Figure 36. Aerial Image of Crystal River Preserve Site

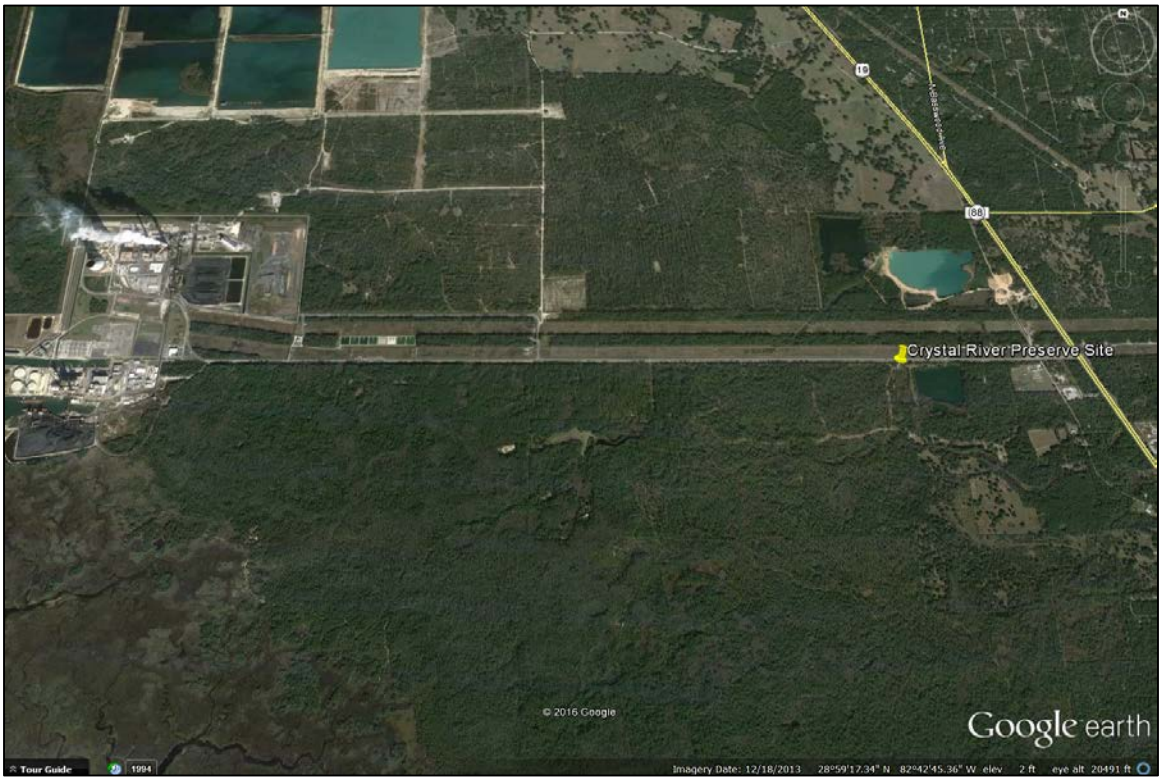
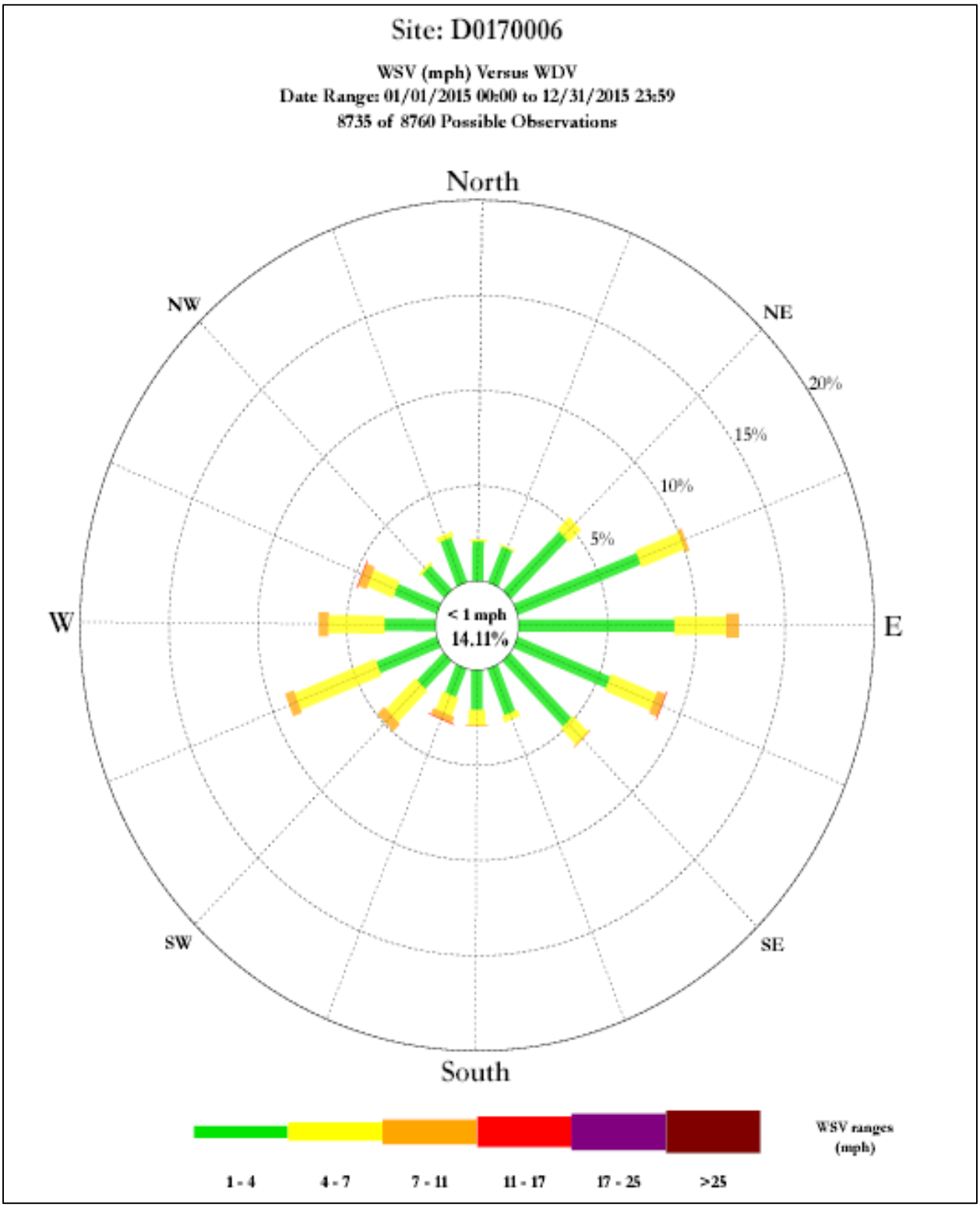


Figure 37. Wind Rose for the Crystal River Preserve SO_2 Site, AQS Site #12-017-0006



Pennsuco Site - AQS Site #12-086-0019

DEP is requesting a change in the monitoring objective for the SO_2 at Pennsuco (AQS Site #12-086-0019) from source oriented to population exposure. Pennsuco was originally assigned the objective for source monitoring due to two cement plants located south of the site. SO_2 monitoring was added to the existing TSP and Pb monitoring, which were later discontinued in 1989. However, the monitoring objective was not updated to reflect this change. Additional site information is provided below in Table 7.

Table 7. Pennsuco SO_2 Site, AQS Site #12-086-0019

Pennsuco Site	
AQS Site #	12-086-0019
City (CBSA)	Miami-Fort Lauderdale-Pompano Beach
Site Name	Pennsuco
Statement of Purpose	Needed by Regulation
Site Review Date	May 18, 2015
County	Miami-Dade
Location Latitude	25.897500
Location Longitude	-80.380000
Address	14201 US 27, Hialeah Gardens
Objective	Population Exposure
Pollutants Monitored	SO_2
Sampling and Analysis Method	TEI 43i; Pulsed Fluorescence
Spatial Scale	Neighborhood
Operating Schedule	Continuous
Network Type	SLAMS
Distance from Inlet to nearest:	Tree Dripline = 10 meters Road = 34 meters Wall = 8.1 meters
Access	Unlimited
Owner of Land	Florida Turnpike System
Inlet Height	3.25 meters
Comments	Obstruction to the south, but meets 270 degree free flow requirement

Lantana Preserve Site - AQS Site #12-099-0021

The AG Holley Site, AQS Site #12-099-0020, was located at the AG Holley State Hospital in Lantana. The site was forced to relocate when the property was sold by the state. A replacement site was found at the Lantana Preserve Site, AQS Site #12-099-0021. The two sites are separated by about one-quarter kilometer and represent the same air mass. The spatial scale for both sites is Neighborhood, which at a minimum represents half of a kilometer. DEP requests the datasets for these sites be combined for data completeness and attainment designations.

Figure 38. AG Holley and Lantana Preserve Sites

Site Closures

Miccosukee Greenway Site - AQS Site #12-073-0013

DEP received a request from the property manager, the City of Tallahassee, to remove the SLAMS ozone monitoring site at the Miccosukee Greenway, AQS Site #12-073-0013. The site footprint, located on the Miccosukee Greenway at the Edenfield Road Trail Head, is adjacent to the right of way to a proposed access road for a future housing development. The City informed DEP's Division of Air Resource Management of plans to line the proposed road with trees in the space currently occupied by the ozone monitoring site.

The site will be well represented by the remaining two ozone sites in the Tallahassee Metropolitan Statistical Area (MSA), Tallahassee Community College, AQS Site #12-073-0012, and St. Marks, AQS Site #12-129-0001, as the last 5 years' design values listed in Table 8 indicate. While the site does not meet the requirements for removal of a SLAMS monitor as described in 40 CFR Part 58.14(c)(1), Section (c) states the request to discontinue the monitoring at a site may be approved if the discontinuance does not compromise data collection needed for implementation of a NAQQS and if the requirements of Appendix D of Part 58 continue to be met. 40 CFR Part 58, Appendix D, requires that two ozone monitors operate in the Tallahassee MSA. The two remaining ozone sites in the Tallahassee MSA will continue to meet monitoring requirements.

Table 8. Tallahassee MSA Ozone Design Values

Ozone Sites in the Tallahassee Area			
Design Value	**073-0012**	**073-0013**	**129-0001**
2015	60	60	59
2014	62	62	62
2013	65	64	63
2012	66	65	65
2011	62	63	63

The site was closed and removed in February 2016 to accommodate the City's request. It was approved by EPA for temporary discontinuation March 16, 2016. Florida has a robust network of ozone monitors, nearly triple the minimum required size, and the Tallahassee MSA will continue to meet the minimum requirements for network compliance. DEP requests approval for permanent site closure.

Lincoln Park Site - AQS Site # 12-011-0010

Broward County's Lincoln Park Site, AQS Site #12-011-0010, does not meet the minimum separation distance to trees as required in 40 CFR, Part 58, Appendix E, Table E-1. The County has tried to negotiate with the City of Fort Lauderdale to address the trees with no success. This site does meet the requirements for removal of a SLAMS monitor as described in 40 CFR Part 58.14(c)(1). According to EPA's Ambient Air Monitoring Network Assessment Guidance Analytical Techniques for Technical Assessments of Ambient Air Monitoring Networks, "A monitor that has been determined by EPA not to be comparable to the relevant NAAQS because of monitor siting mat be recommended for removal."

The 2011-2015 design values for the three monitored parameters are in Table 9. Minimum monitoring requirements for CO, and PM_{10} will continue to be met for the MSA and the minimum monitoring requirements for SO_2 will continue to be met for the CBSA. DEP requests approval for permanent site closure.

Table 9. Lincoln Park Site 2011-2015 Design Values

Lincoln Park Design Values			
	CO-1 hr	**PM_{10}**	**SO_2**
2011	2.1	22	39
2012	2.9	45	27
2013	1.8	42	16
2014	2.8	61	12
2015	1.6	66	3

Site Relocations

Coconut Creek Park - AQS Site #12-011-5005

Ambient monitoring was suspended at the Coconut Creek Park Site on July 24, 2012. Although EPA was notified at the time of suspension, they have since requested formal documentation of this action.

In July 2012, the City of Coconut Creek informed Broward County that Coconut Creek Park would be undergoing renovations and the air monitoring site would need to be relocated to another area of the park. Monitoring was suspended on July 24, 2012, while a new platform was constructed at the new location. The platform was completed and passed inspection by the City building inspector on October 14, 2015. The $PM_{2.5}$ monitor was installed on November 24, 2015, with normal operations resuming on December 1, 2015. PM_{10} monitoring operations resumed in March 2016. Site Review information is presented in Table 9. There is a tree currently 6.2 meters from the inlet that will be removed, providing at least 10 additional meters in distance to the dripline. Other pertinent site information is provided in Figures 39–51.

Table 10. Coconut Creek Park Site, AQS Site #12-011-5005

Coconut Creek Park Site	
AQS Site #	12-011-5005
City (CBSA)	Miami-Fort Lauderdale-Pompano Beach
Site Name	Coconut Creek Park
Statement of Purpose	Source Monitoring
Site Review Date	December 15, 2015
County	Broward
Location Latitude	26.294167
Location Longitude	-80.176389
Address	4010 Winston Park Boulevard
Objective	Source: North Regional Resource Recovery Plant, a municipal incinerator, 1 mile southeast of the site
Pollutants Monitored	$PM_{2.5,}$ PM_{10} and Toxics
Sampling and Analysis Method	$PM_{2.5}$ (TEI 2025i), PM_{10} (Tisch Hi-Vol), both use Gravimetric Analysis, Toxics, Summa collection and TO-15 Analysis
Spatial Scale	Neighborhood
Operating Schedule	Daily $PM_{2.5}$ and 1/6 Day PM_{10} and Toxics
Network Type	SLAMS
Distance from Inlet to nearest:	Wall/Inlet = NA Tree Dripline = 10 meters Road = 35 meters
Access	Unlimited
Inlet Height	3.2 meters
Comments	No structures influence the site

Figure 39. North from Coconut Creek Park Site

Figure 40. Northeast from Coconut Creek Park Site

Figure 41. East from Coconut Creek Park Site

Figure 42. Southeast from Coconut Creek Park Site

Figure 43. South from Coconut Creek Park Site

Figure 44. Southwest from Coconut Creek Park Site

Figure 45. West from Coconut Creek Park Site

Figure 46. Northwest from Coconut Creek Park Site

Figure 47. Coconut Creek Site

Figure 48. Aerial Image of Coconut Creek Site (with Former Site Represented by Latitude and Longitude)

Figure 49. Trees to be Removed to Meet Siting Criteria

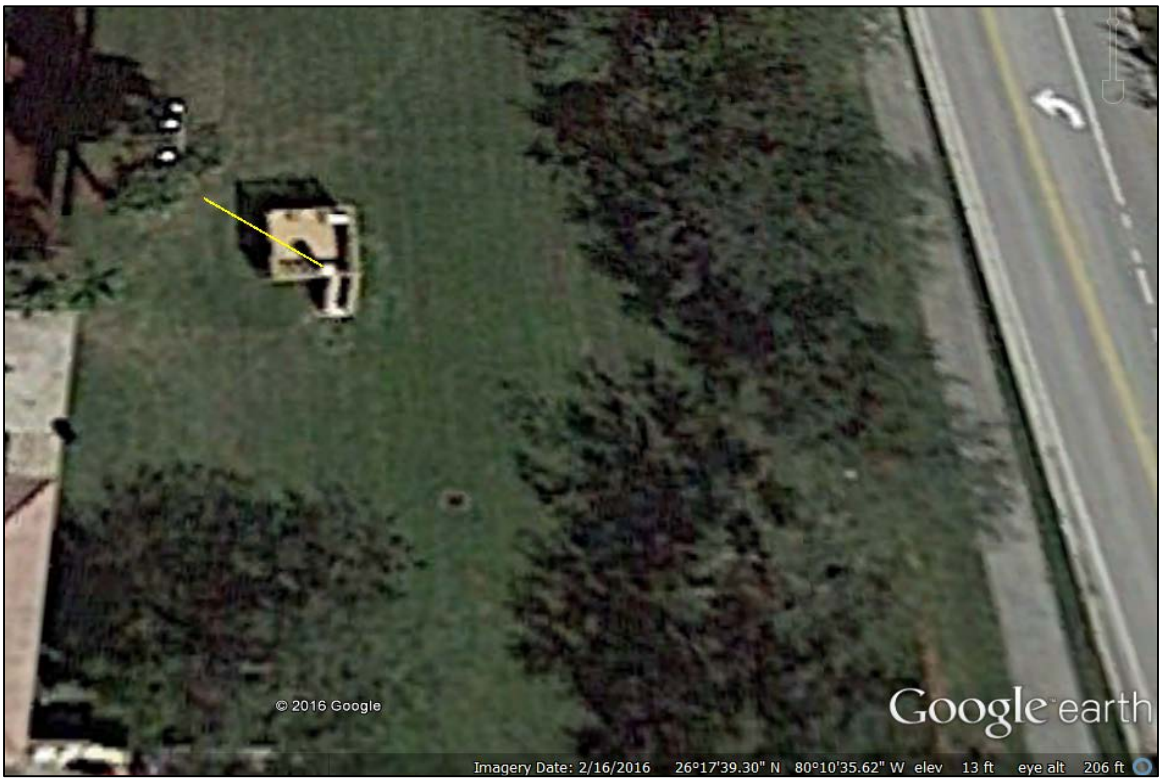


Figure 50. Waste to Energy Plant at 2600 Wiles Road and Coconut Creek Park Site

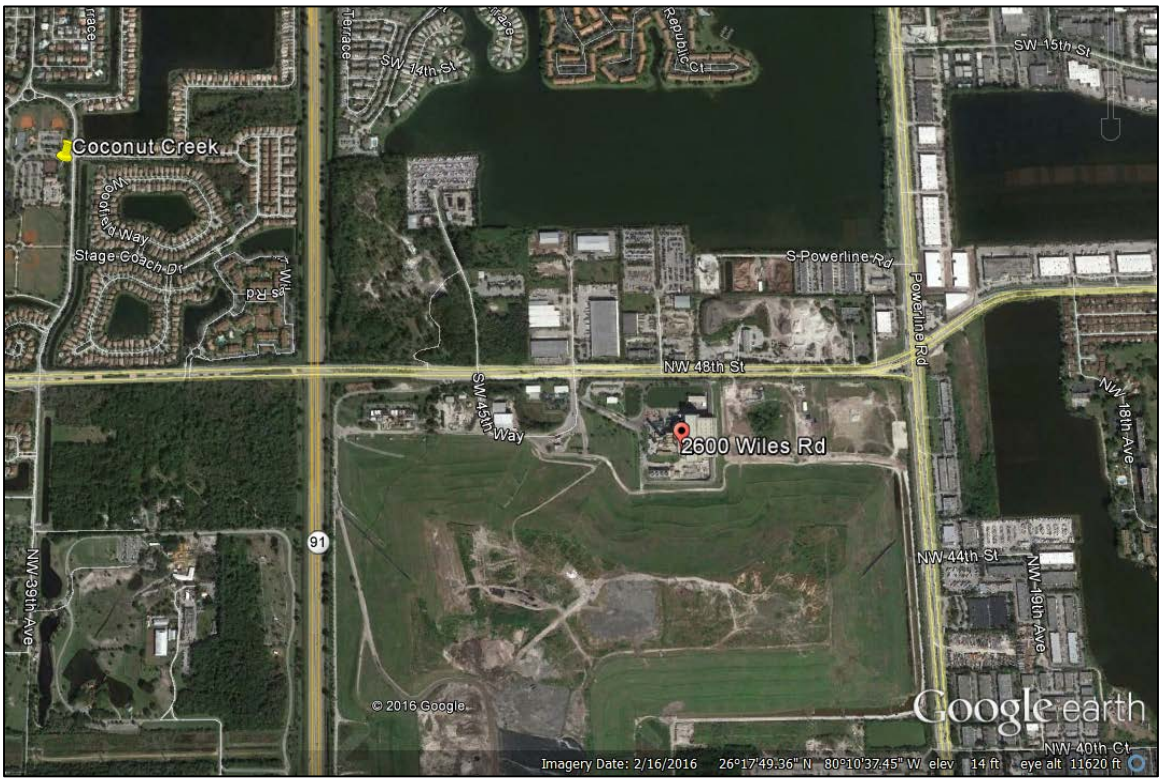
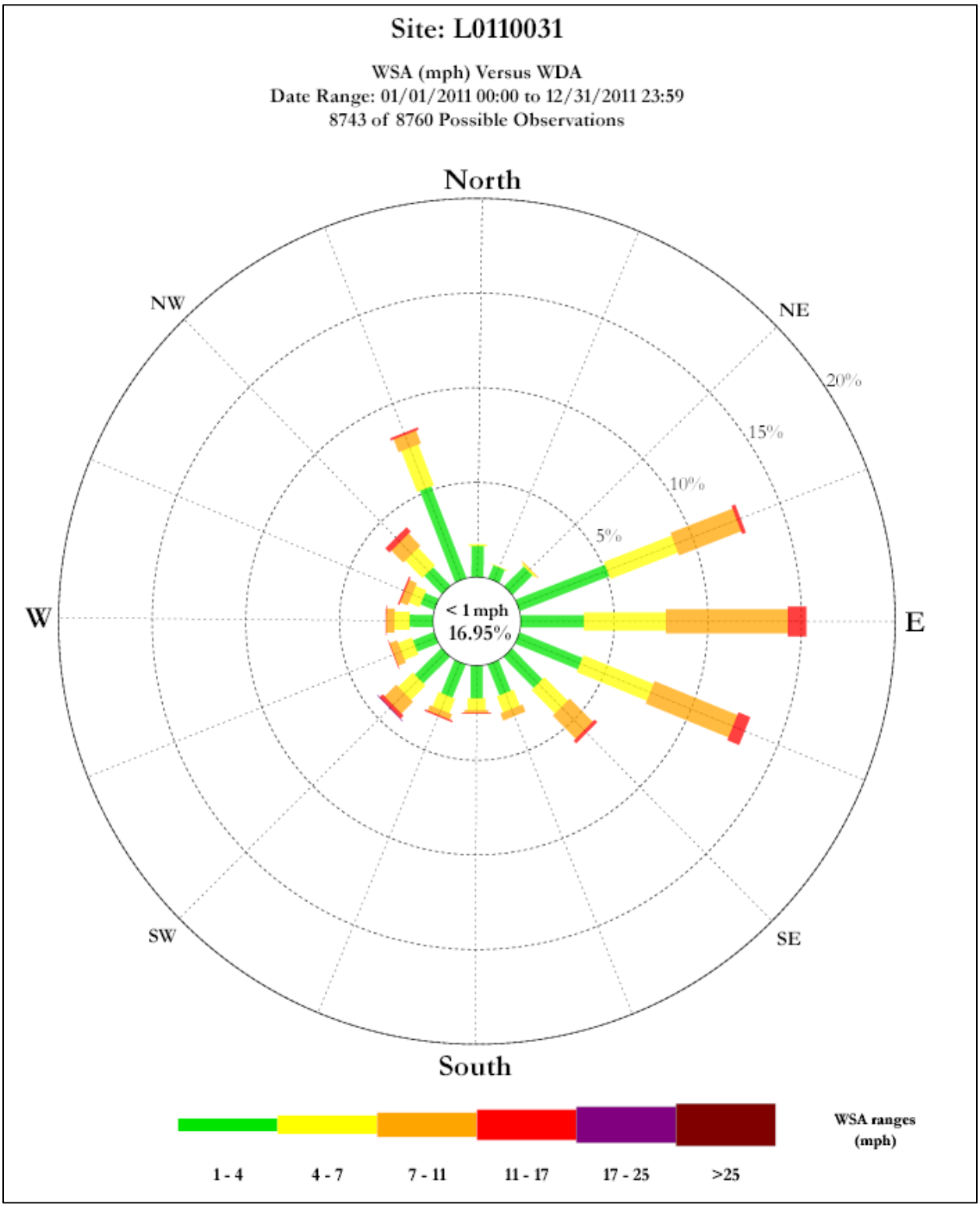


Figure 51. Wind Rose for L0110031, 11 km West of Coconut Creek Park Site



Royal Palm Beach Site - AQS Site #12-099-0009

As described in the 2015 Annual Air Monitoring Plan, submitted July 1, 2015, the City of Royal Palm Beach requested the Palm Beach County Health Department to remove AQS Site #12-099-0009 from their property by October 31, 2015. The Palm Beach County Health Department complied with this request.

This submission reaffirms the request to close AQS Site #12-099-0009, ozone and $PM_{2.5}$ monitoring site and to establish a new site at Lamstein Lane, AQS Site #12-099-0022. The new site was selected to maintain monitoring in Royal Palm Beach and to preserve data trends for ozone in Palm Beach County. DEP requests that the datasets for these sites be combined for data completeness. The site objective is population monitoring. A waiver from NAAQS comparison for the $PM_{2.5}$ monitor, a BAM 1020, was approved as part of the 2015 Annual Air Monitoring Plan. Site information presented in Table 10 and Table 11 contains the $PM_{2.5}$ 2013-2014 design values for Palm Beach County sites. Additional pertinent site information is provided in Figures 52–63.

Table 7. Lamstein Lane Site, AQS Site #12-099-0022

Lamstein Lane	
AQS Site #	12-099-0022
City (CBSA)	Miami-Fort Lauderdale-Pompano Beach
Statement of Purpose	Used for AQI for dispersed population
County	Palm Beach
Location Latitude	26.687420
Location Longitude	-80.220350
Address	151 Lamstein Lane, Royal Palm Beach
Objective	Population Oriented
Pollutants Monitored	Ozone and $PM_{2.5}$
Sampling and Analysis Method	Ozone (49i UV Photometry), $PM_{2.5}$ (TEI 2025, Gravimetric Analysis), $PM_{2.5}$ (continuous BAM 1020, Beta Analysis)
Spatial Scale	Neighborhood
Operating Schedule	Ozone and $PM_{2.5}$: Continuous; $PM_{2.5}$ (TEI 2025): Daily
Network Type	Ozone and $PM_{2.5}$: SLAMS; $PM_{2.5}$: Continuous: SPM
Distance from Inlet to nearest:	Wall/Inlet = 16 meters Tree Dripline = 24 meters Road = 52 meters AADT < 12,000
Access	Unlimited
Inlet Height	6.4 meters
Comments	The site elevation will be increased and the ozone probe will be at least one meter above the highest point of the adjacent building; The site is 5 km SSE from the previous Royal Palm Beach Site

Table 8. Design Values for Palm Beach County $PM_{2.5}$ Sites

Monitor	2013-2015 Design Value (µg/m^3)
Royal Palm Beach (FRM)	5.2
Royal Palm Beach (FEM)	6.7
Belle Glade (FEM)	6.9
Delray Beach (FRM)	5.3

Figure 52. North from Lamstein Lane Site

Figure 53. Northeast from Lamstein Lane Site

Figure 54. East from Lamstein Lane Site

Figure 55. Southeast from Lamstein Lane Site

Figure 56. South from Lamstein Lane Site

Figure 57. Southwest from Lamstein Lane Site

Figure 58. West from Lamstein Lane Site

Figure 59. Northwest from Lamstein Lane Site

Figure 60. Lamstein Lane Site

Figure 61. Aerial Image of Lamstein Lane Site (No Obstructions)

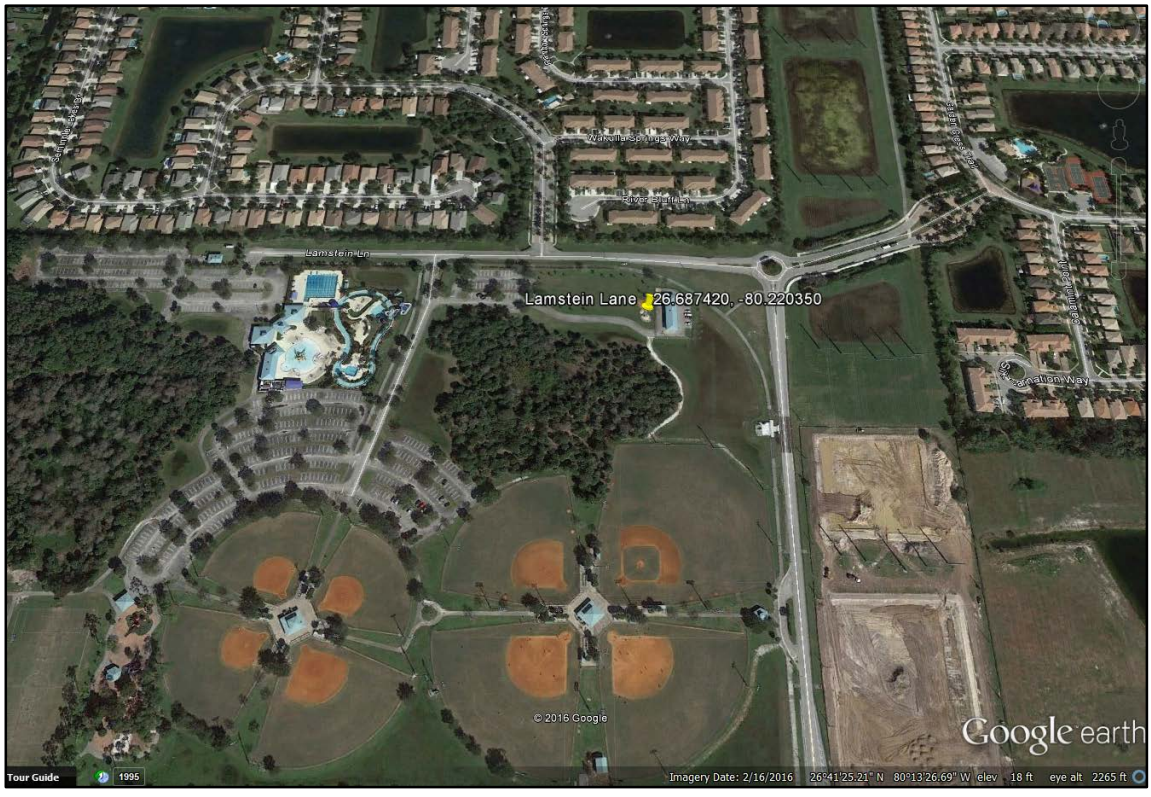


Figure 62. Royal Palm Beach Site and Lamstein Lane Relocation (5 km Apart)

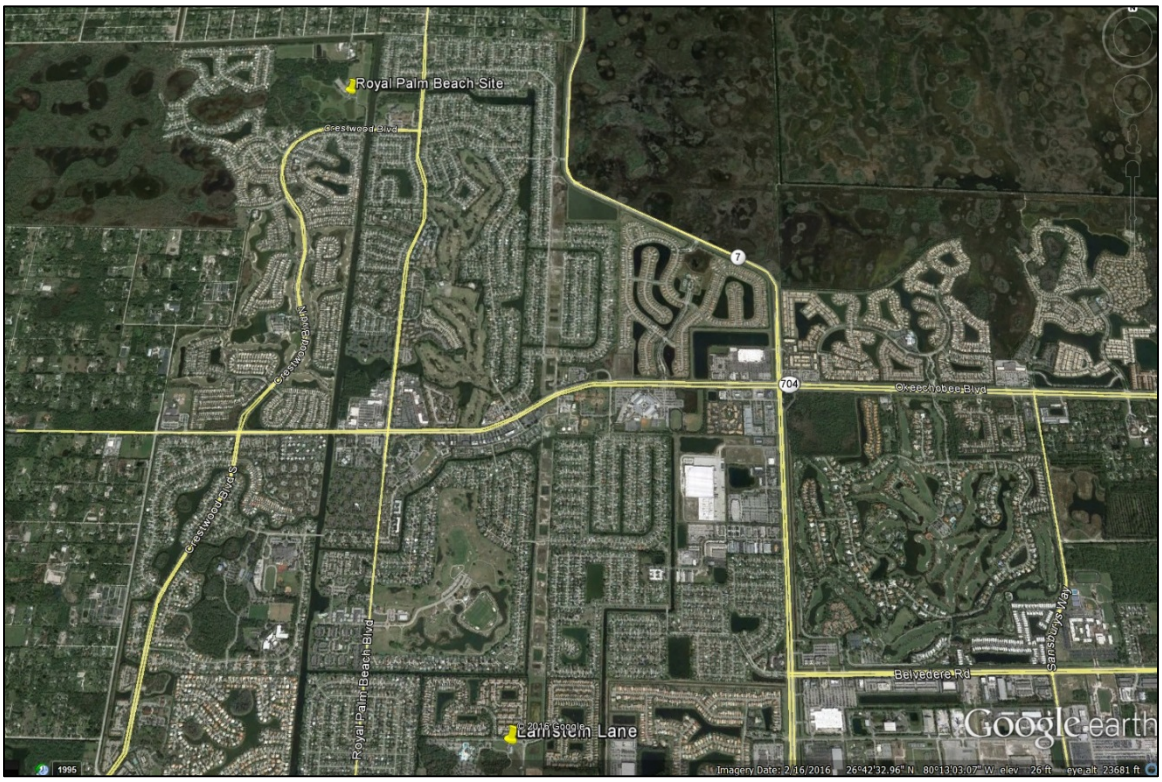
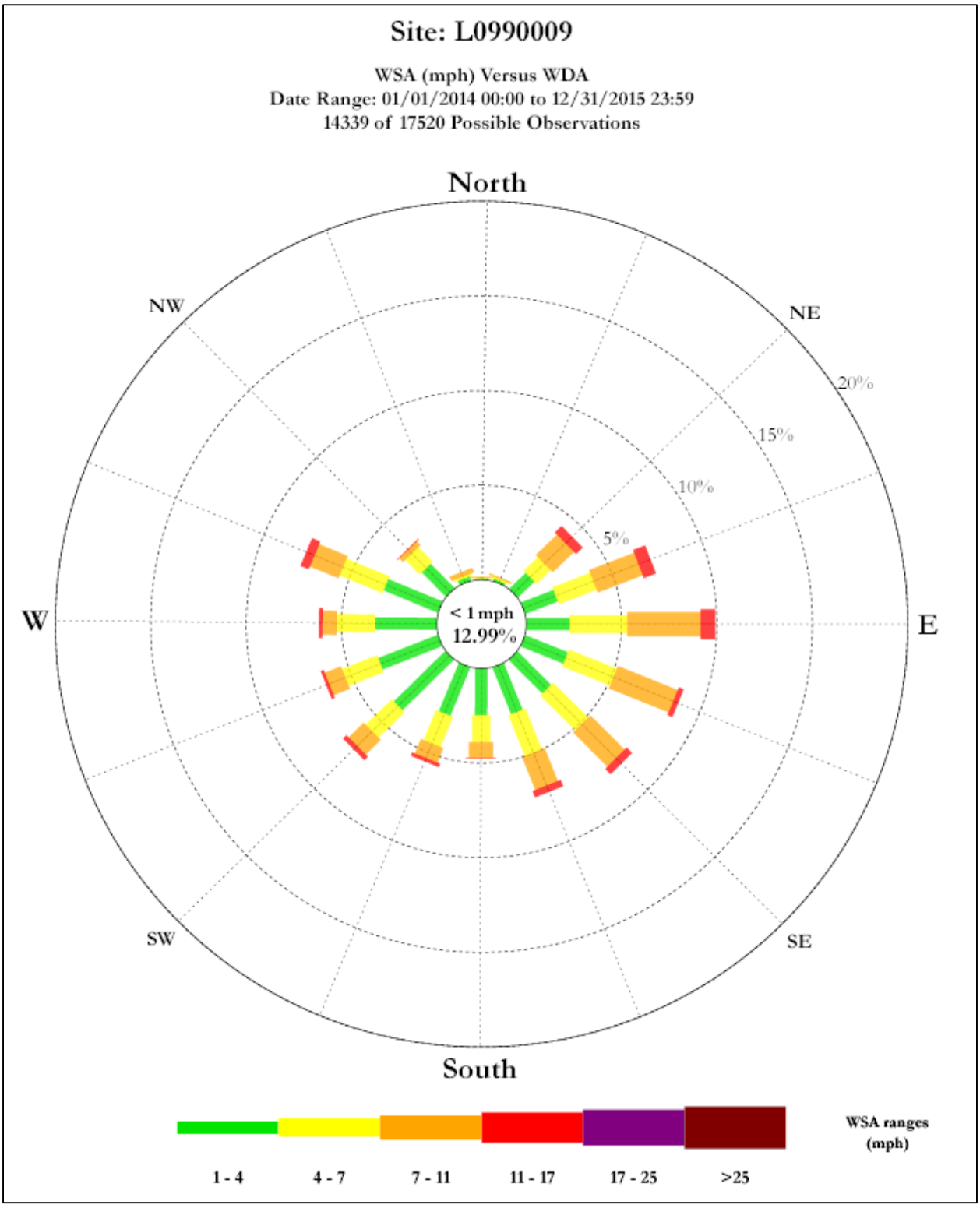


Figure 63. Wind Rose from Previous Royal Palm Beach Site, AQS #12-099-0009



Bonifay Site - AQS Site #12-059-0004

The Tri-County Airport is undergoing an expansion and requested that the air monitoring shelter for the Bonifay Site, AQS Site #12-059-0004, be relocated to another part of their property. On November 5, 2015, the shelter was moved 377 meters south of the original location to comply with the property owners' request. As a background site, this move remains on the same property, within the same air mass and will maintain the same site number. Site Review information is presented in Table 8. Other pertinent site information is provided in Figures 64–74. A wind rose from the original Bonifay Site is displayed in Figure 73.

Table 9. Bonifay Site, AQS #12-059-0004

Bonifay	
AQS Site #	12-059-0004
City (CBSA)	Not in a CBSA
Statement of Purpose	Used for AQI and Background Monitoring
Site Review Date	N/A
County	Holmes
Location Latitude	30.844850
Location Longitude	-85.604960
Address	Airport Road off County Road 162, North of Bonifay
Objective	Background
Pollutants Monitored	Ozone and $PM_{2.5}$ continuous
Sampling and Analysis Method	Ozone (TEI 49i UV Photometry), $PM_{2.5}$ (continuous: TEI TEOM 1400)
Spatial Scale	Urban
Operating Schedule	Ozone and $PM_{2.5}$: continuous: Continuous
Network Type	Ozone and $PM_{2.5}$: SPM
Distance from Inlet to nearest:	Wall/Inlet = N/A Tree Dripline = 18 meters Road = 30 meters
Access	Unlimited
Inlet Height	3.9 meters
Comments	No structures influence the site

Figure 64. Aerial of Bonifay Site

Figure 65. North from Bonifay Site

Figure 66. Northeast from Bonifay Site

Figure 67. East from Bonifay Site

Figure 68. Southeast from Bonifay Site

Figure 69. South from Bonifay Site

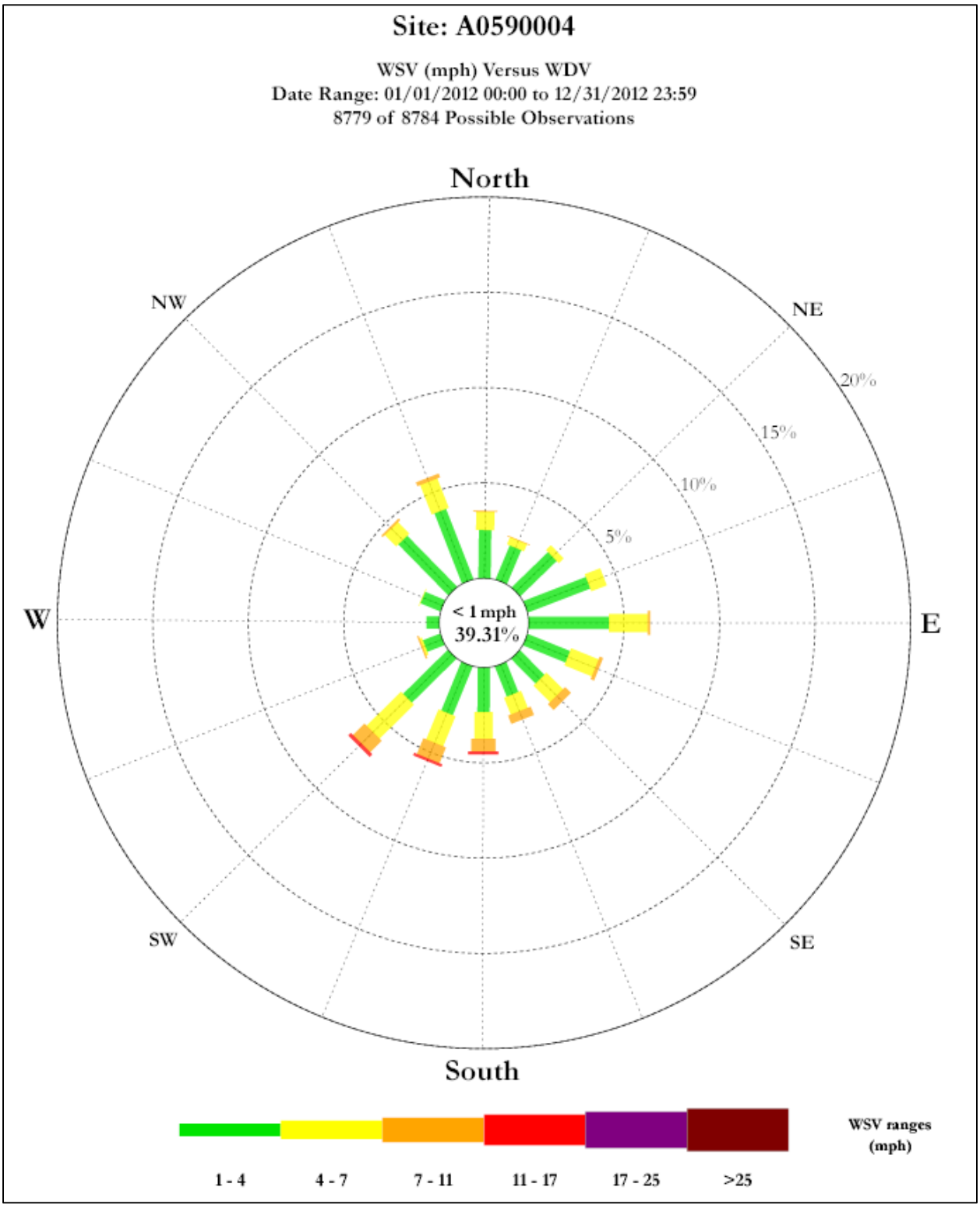
Figure 70. Southwest from Bonifay Site

Figure 71. West from Bonifay Site

Figure 72. Northwest from Bonifay Site

Figure 73. Bonifay Site

Figure 74. Wind Rose from Original Bonifay Location, AQS Site 12-05-0004



APPENDIX B

SLAMS to SPM Reassignment

Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
www.dep.state.fl.us

SLAMS to SPM Reassignment

The table below lists sites DEP is requesting to be reassigned from the SLAMS network to the SPM network. At present, DEP does not intend to discontinue any of the reassigned monitors. The requests meet 40CFR Part 58.14 System Modification requirements and ensure the network continues to meet and exceed the minimum monitoring requirements.

Site Name*	Site	Type	Pollutant	Showed Attainment 2011-2015	Probability <10% Monitor Will Exceed 80% of NAAQS	Monitor not Required by Attainment or Maintenance Plan	Monitor is Not Last in Nonattainment or Maintenance Areas	Beyond Minimum CFR Required
Vista View Park	12-011-0033	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
Pompano Highland Fire House	12-011-2003	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
San Antonio	12-101-0005	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
Holiday	12-101-2001	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
Coast Guard Station - Davis Island	12-057-1035	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
USMC Reserve Center	12-057-1065	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
John Chesnut Sr. Park - East Lake	12-103-5002	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
Clermont - Lost Lake Elementary School	12-069-0002	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
Osceola County Fire Station - Four Corners	12-097-2002	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
Seminole State College	12-117-1002	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
Flagler - Sawgrass Road Site	12-035-0004	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
Woodlawn Beach Middle School	12-113-0015	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
County Sheriff Impound	12-083-0004	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
Paynes Prairie State Park	12-001-3011	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
Lake City - Veterans Domicile	12-023-0002	SLAMS to SPM	Ozone	Yes	Yes	Yes	Yes	Yes
Lincoln Park Elementary	12-011-0010	SLAMS to SPM	SO_2	Yes	Yes	Yes	Yes	Yes
E.G. Simmons Park - #113	12-057-0081	SLAMS to SPM	SO_2	Yes	Yes	Yes	Yes	Yes

Site Name*	Site	Type	Pollutant	Showed Attainment 2011-2015	Probability <10% Monitor Will Exceed 80% of NAAQS	Monitor not Required by Attainment or Maintenance Plan	Monitor is Not Last in Nonattainment or Maintenance Areas	Beyond Minimum CFR Required
Derby Lane	12-103-0023	SLAMS to SPM	SO_2	Yes	Yes	Yes	Yes	Yes
Oakwood	12-103-5003	SLAMS to SPM	SO_2	Yes	Yes	Yes	Yes	Yes
Kooker Park	12-031-0032	SLAMS to SPM	SO_2	Yes	Yes	Yes	Yes	Yes
Minerva Street	12-031-0080	SLAMS to SPM	SO_2	Yes	Yes	Yes	Yes	Yes
Fort Caroline Road	12-031-0097	SLAMS to SPM	SO_2	Yes	Yes	Yes	Yes	Yes
White Springs	12-047-0015	SLAMS to SPM	SO_2	Yes	Yes	Yes	Yes	Yes
Palatka Barge Port	12-107-1008	SLAMS to SPM	SO_2	Yes	Yes	Yes	Yes	Yes
Lincoln Park Elementary	12-011-0010	SLAMS to SPM	CO	Yes	Yes	Yes	Yes	Yes
Dixie Highway	12-086-0031	SLAMS to SPM	CO	Yes	Yes	Yes	Yes	Yes
Kendall	12-086-0034	SLAMS to SPM	CO	Yes	Yes	Yes	Yes	Yes
Lab Annex	12-086-4002	SLAMS to SPM	CO	Yes	Yes	Yes	Yes	Yes
Gateway	12-103-2008	SLAMS to SPM	CO	Yes	Yes	Yes	Yes	Yes
Minerva Street	12-031-0080	SLAMS to SPM	CO	Yes	Yes	Yes	Yes	Yes
Rossell	12-031-0084	SLAMS to SPM	CO	Yes	Yes	Yes	Yes	Yes
Lake Isle Estates - Winter Park	12-095-2002	SLAMS to SPM	CO	Yes	Yes	Yes	Yes	Yes
Lab Annex	12-086-4002	SLAMS to SPM	NO_2	Yes	Yes	Yes	Yes	Yes
USMC Reserve Center	12-057-1065	SLAMS to SPM	NO_2	Yes	Yes	Yes	Yes	Yes

Site Name*	Site	Type	Pollutant	Showed Attainment 2011-2015	Probability <10% Monitor Will Exceed 80% of NAAQS	Monitor not Required by Attainment or Maintenance Plan	Monitor is Not Last in Nonattainment or Maintenance Areas	Beyond Minimum CFR Required
Coconut Creek	12-011-5005	SLAMS to SPM	PM_{10}	Yes	Yes	Yes	Yes	Yes
Coast Guard Station - Davis Island	12-057-1035	SLAMS to SPM	PM_{10}	Yes	Yes	Yes	Yes	Yes
Woodlawn	12-103-0012	SLAMS to SPM	PM_{10}	Yes	Yes	Yes	Yes	Yes
Azalea Park	12-103-0018	SLAMS to SPM	PM_{10}	Yes	Yes	Yes	Yes	Yes
County Motorpool	12-103-3004	SLAMS to SPM	PM_{10}	Yes	Yes	Yes	Yes	Yes
County Motorpool	12-103-3004	SLAMS to SPM	PM_{10}	Yes	Yes	Yes	Yes	Yes
John Chesnut Sr. Park - East Lake	12-103-5002	SLAMS to SPM	PM_{10}	Yes	Yes	Yes	Yes	Yes
Palatka Barge Port	12-107-1008	SLAMS to SPM	PM_{10}	Yes	Yes	Yes	Yes	Yes
Pompano Highland Fire House	12-011-2002	SLAMS to SPM	$PM_{2.5}$	Yes	Yes	Yes	Yes	Yes
Coconut Creek	12-011-5005	SLAMS to SPM	$PM_{2.5}$	Yes	Yes	Yes	Yes	Yes
Miami Fire Station - Station #8	12-086-1016	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes
Sydney	12-057-3002	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes
Azalea Park	12-103-0018	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes
Sandy Lane	12-103-1009	SLAMS to SPM	$PM_{2.5}$	Yes	Yes	Yes	Yes	Yes
Sunny Acres	12-031-0099	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes
Lake Isle Estates - Winter Park	12-095-2002	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes
Seminole Community College	12-117-1002	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes
Bee Ridge Park	12-115-0013	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes
Baptist Childrens' Home	12-105-6006	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes
Winkler Pump Station	12-071-0006	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes

Site Name*	Site	Type	Pollutant	Showed Attainment 2011-2015	Probability <10% Monitor Will Exceed 80% of NAAQS	Monitor not Required by Attainment or Maintenance Plan	Monitor is Not Last in Nonattainment or Maintenance Areas	Beyond Minimum CFR Required
Ellyson Industrial Park	12-033-0004	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes
Tallahassee Community College	12-073-0012	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes
Millhopper	12-001-0023	SLAMS to SPM	$PM_{2.5}$-Collocated	Yes	Yes	Yes	Yes	Yes
Melbourne	12-009-0007	SLAMS to SPM	$PM_{2.5}$-Continuous	TEOM Non-FEM	Cannot be compared to the NAAQS	Yes	Yes	No

*Color Legend: Alternating Blue and White for a new Metropolitan Statistical Area.

APPENDIX C

Annual Site Review Summary

Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
www.dep.state.fl.us

Annual Site Review Summary

Site reviews are conducted by DEP audit staff to verify that sites meet probe line siting criteria. Issues that are identified are resolved as quickly as practicable. The date of the most recent site review, whether there are existing issues, and any comments regarding the issues are provided in Table 1.

Table 1. The Annual Site Review Summary

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
12-001-0023	MILLHOPPER	Manual $PM_{2.5}$ (2)	August 18, 2015	NO	N/A
12-001-3011	PAYNES PRAIRIE	Ozone Continuous $PM_{2.5}$	March 9, 2016	YES	Trees greater than 26.5 ° above the height of the ozone inlet – being addressed (relocation anticipated due to constraints by property owner)
12-003-0002	OLUSTEE	Ozone	July 7, 2015	NO	N/A
12-005-0006	ST. ANDREWS STATE PARK	Ozone Continuous $PM_{2.5}$	April 7, 2016	NO	N/A
12-009-0007	MELBOURNE	Ozone Manual $PM_{2.5}$ Continuous $PM_{2.5}$ Continuous PM_{10}	February 22, 2016	NO	N/A
12-009-4001	COCOA BEACH (FREEDOM 7)	Ozone	April 11, 2016	NO	N/A
12-011-0010	LINCOLN PARK (28)	SO_2, CO Continuous PM_{10} Toxics	August 3, 2015	NO	Broward County is considering shutting down the site due to tree cutting limitations.
12-011-0033	VISTA VIEW (SITE #33)	Ozone Continuous $PM_{2.5}$ Toxics	December 8, 2015	NO	N/A
12-011-0034	BANU (34)	Ozone PM_{10} (2) Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ Trace CO Trace SO_2 NO_y SASS URG Low Volume PM_{10} Summa	April 26, 2016	NO	N/A
12-011-0035	SUNRISE BOULEVARD (35)	NO_2 CO Continuous $PM_{2.5}$ Ultrafine Toxics Summa	January 13, 2016	NO	N/A
12-011-2003	POMPANO HIGHLANDS (1)	Ozone Manual $PM_{2.5}$	April 26, 2016	NO	N/A
12-011-5005	COCONUT CREEK PARK (30)	Manual $PM_{2.5}$	December 7, 2015	NO	N/A

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
12-011-8002	JOHN U LLOYD STATE PARK (25)	Ozone NO_2 Toxics	January 12, 2016	NO	N/A
12-017-0006	CRYSTAL RIVER PRESERVE STATE PARK	SO_2	August 19, 2015	NO	N/A
12-021-0004	LAUREL OAK ELEMENTARY SCHOOL	Ozone Continuous $PM_{2.5}$	February 9, 2016	NO	N/A
12-023-0002	LAKE CITY - VETERANS DOMICILE	Ozone Continuous $PM_{2.5}$	April 4, 2016	NO	N/A
12-031-0032	KOOKER PARK	SO_2 NO_2 Manual $PM_{2.5}$ Continuous PM_{10}	January 27, 2016	NO	N/A
12-031-0077	SHEFFIELD	Ozone Continuous $PM_{2.5}$ Toxics	May 2, 2016	NO	N/A
12-031-0080	SOUTHSIDE PLAYGROUND	SO_2 CO Toxics	May 2, 2016	NO	N/A
12-031-0081	CEDAR BAY ROAD	SO_2	July 16, 2015	NO	N/A
12-031-0084	ROSSELL & COPELAND	CO Continuous PM_{10} Toxics	October 27, 2015	NO	N/A
12-031-0097	FT. CAROLINE ROAD	SO_2	October 27, 2015	NO	N/A
12-031-0098	MANDARIN	Manual $PM_{2.5}$ Continuous $PM_{2.5}$	January 28, 2016	NO	N/A
12-031-0099	SUNNY ACRES PARK	Manual $PM_{2.5}$ (2)	July 13, 2015	NO	N/A
12-031-0100	MAYO CLINIC	Ozone Continuous $PM_{2.5}$ Toxics	July 14, 2015	NO	N/A
12-031-0106	CISCO DRIVE	Ozone	October 26, 2015	NO	N/A
12-031-0107	LEE HIGH SCHOOL	CO	January 26, 2016	NO	N/A
12-031-0108	PEPSI PLACE	NO_2 CO Continuous $PM_{2.5}$	January 25, 2016	NO	N/A
12-033-0004	ELLYSON INDUSTRIAL PARK	Ozone SO_2 Manual $PM_{2.5}$ Continuous $PM_{2.5}$	February 3, 2016	NO	N/A
12-033-0018	PENSACOLA NAVAL AIR STATION	Ozone	July 29, 2015	NO	N/A
12-035-0004	FLAGLER	Ozone	October 12, 2015	NO	N/A
12-047-0015	WHITE SPRINGS	SO_2 Continuous $PM_{2.5}$	January 20, 2016	NO	N/A

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
12-053-0009	D.S. PARROT MIDDLE SCHOOL	Manual $PM_{2.5}$ PM_{10}	July 13, 2015	NO	N/A
12-055-0003	ARCHBOLD	Ozone	February 10, 2016	NO	N/A
12-057-0081	SIMMONS PARK	Ozone SO_2	October 6, 2015	YES	Trees within 10 meters – being addressed
12-057-0083	GARDINIER	Continuous PM_{10}	April 21, 2016	NO	N/A
12-057-0100	KENLY	Pb	October 5, 2015	NO	N/A
12-057-0109	EAST BAY	SO_2	January 12, 2016	NO	N/A
12-057-1035	DAVIS ISLAND	Ozone SO_2 Continuous PM_{10}	July 17, 2015	YES	Trees within 10 meters – being addressed
12-057-1065	GANDY	Ozone NO_2 Continuous $PM_{2.5}$	April 20, 2016	NO	N/A
12-057-1066	GULF COAST LEAD	Pb (2)	April 20, 2016	NO	N/A
12-057-1073	PATENT	Pb	July 17, 2015	YES	Trees within 10 meters – being addressed
12-057-3002	SYDNEY	Ozone NO_y Trace SO_2 Trace CO Continuous $PM_{2.5}$ Manual $PM_{2.5}$ (2) PM_{10} (2) Low Volume PM_{10} SASS URG Toxics Summa ERG Aromatic Hydrocarbon PM_{10}/Puff	February 1, 2016	NO	N/A
12-059-0004	BONIFAY TRI-COUNTY AIRPORT	Ozone Continuous $PM_{2.5}$	October 27, 2015	NO	N/A
12-069-0002	LOST LAKE ELEMENTARY SCHOOL	Ozone	May 18, 2016	NO	N/A
12-071-0005	FT MYERS WTP (WINKLER PUMP STATION)	Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ Continuous PM_{10}	February 9, 2016	NO	N/A
12-071-2002	CAPE CORAL (ROTARY PARK)	Ozone	July 21, 2015	NO	N/A
12-071-3002	FT. MYERS BEACH (BAY OAKS PARK)	Ozone	July 22, 2015	YES	Trees within 10 meters – Florida DEP will request a permanent waiver
12-073-0012	TALLAHASSEE COMMUNITY COLLEGE	Ozone Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ SASS URG RADNET	June 10, 2016	YES	Trees within 26.5° declination – being addressed

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
12-073-0013	MICCOSUKEE GREENWAYS	Ozone	August 18, 2015	NO	Site closed January 31, 2016.
12-081-0028	PORT MANATEE (DEP SO_2)	SO_2	September 16, 2015	NO	N/A
12-081-3002	PORT MANATEE	Ozone	September 16, 2015	NO	N/A
12-081-4012	GT BRAY PARK	Ozone	September 15, 2015	NO	N/A
12-081-4013	39TH STREET	Ozone	September 16, 2015	NO	N/A
12-083-0003	OCALA YMCA	Ozone Continuous $PM_{2.5}$	April 13, 2016	NO	N/A
12-083-0004	MARION COUNTY SHERIFF	Ozone	May 16, 2016	NO	N/A
12-085-0007	STUART	Ozone Continuous $PM_{2.5}$	February 23, 2016	NO	N/A
12-086-0019	PENNSUCO	SO_2	June 20, 2016	NO	N/A
12-086-0027	ROSENSTIEL	Ozone NO_2	August 25, 2015	NO	N/A
12-086-0029	PERDUE	Ozone Toxics	June 22, 2016	NO	N/A
12-086-0031	CORAL REEF	CO	August 26, 2015	YES	Trees within 10 meters – being addressed
12-086-0033	PALM SPRINGS	Manual $PM_{2.5}$	March 7, 2016	NO	N/A
12-086-0034	KENDALL	CO	March 8, 2016	NO	N/A
12-086-1016	MIAMI FIRE STATION	Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ PM_{10} (2)	August 24, 2015	NO	N/A
12-086-4002	OLD LAB ANNEX	NO_2 CO	November 30, 2015	NO	N/A
12-086-6001	HOMESTEAD FIRE STATION	Manual $PM_{2.5}$ Continuous $PM_{2.5}$	December 2, 2015	YES	Trees within 10 meters - relocation anticipated for 2016
12-089-0005	FERNANDINA BEACH	SO_2	April 5, 2016	NO	N/A
12-089-0010	YULEE	Continuous $PM_{2.5}$	May 15, 2015	NO	N/A
12-091-0002	FT. WALTON BEACH	Ozone Continuous PM_{10}	July 30, 2015	NO	N/A
12-095-0008	WINEGARD ELEMENTARY SCHOOL	Ozone	March 14, 2016	NO	N/A
12-095-2002	WINTER PARK	Ozone NO_2 SO_2 CO Manual $PM_{2.5}$ (2) PM_{10} (2) Continuous $PM_{2.5}$ Summa Carbonyl	January 20, 2016	NO	N/A
12-097-2002	OSCEOLA COUNTY FIRE STATION - FOUR CORNERS	Ozone	October 14, 2015	YES	Trees within 10 meters of the inlet. Trees within 26.5° declination. Due to tree cutting limitations presented by property owners, DEP will request a temporary waiver.

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
12-099-0008	BELLE GLADE	Continuous $PM_{2.5}$	June 8, 2016	NO	N/A
12-099-0021	LANTANA PRESERVE	Ozone NO_2, Continuous PM_{10}	May 11, 2016	NO	N/A
12-099-2005	DELRAY BEACH HEALTH DEPARTMENT	Manual $PM_{2.5}$	November 17, 2015	NO	N/A
12-101-0005	SAN ANTONIO	Ozone	June 16, 2016	NO	N/A
12-101-2001	HOLIDAY	Ozone	November 4, 2015	NO	N/A
12-103-0004	ST. PETERSBURG COLLEGE (CLEARWATER)	Ozone	January 26, 2016	NO	N/A
12-103-0012	WOODLAWN (PINELLAS)	PM_{10}	July 8, 2015	YES	Trees within 10 meters of inlet. Due to tree cutting limitations presented by property owners, Florida DEP will request a permanent waiver.
12-103-0018	AZALEA PARK	Ozone NO_2 Manual $PM_{2.5}$ (2) PM_{10} Continuous $PM_{2.5}$ Carbonyl VOC	June 15, 2016	NO	N/A
12-103-0023	DERBY LANE	SO_2	October 14, 2015	NO	N/A
12-103-0027	SAWGRASS LAKE PARK	NO_2 CO Aethelometer	June 15, 2016	YES	Trees within 10 meters of inlets and trees are too tall – being addressed.
12-103-1009	SANDY LANE	Manual $PM_{2.5}$	April 6, 2016	NO	N/A
12-103-2008	GATEWAY	CO	January 27, 2016	NO	N/A
12-103-3004	COUNTY MOTORPOOL ULMERTON	Manual PM_{10} (2)	June 16, 2016	NO	N/A
12-103-5002	EAST LAKE	Ozone Continuous $PM_{2.5}$ PM_{10}	April 5, 2016	NO	N/A
12-103-5003	OAKWOOD	SO_2	April 5, 2016	NO	N/A
12-105-6005	SIKES ELEMENTARY SCHOOL	Ozone SO_2	August 4, 2015	NO	N/A
12-105-6006	BAPTIST CHILDRENS HOME	Ozone Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ Continuous PM_{10}	February 16, 2016	YES	Trees are too close and too tall for all inlets. Due to tree cutting limitations presented by property owners, DEP is planning to relocate the site. In the interim, DEP will request a temporary waiver.
12-107-1008	PALATKA BARGE PORT	SO_2 Continuous PM_{10}	March 8, 2016	NO	N/A
12-111-0013	SAVANNAS	Ozone	February 24, 2016	NO	N/A
12-113-0015	WOODLAWN BEACH MIDDLE SCHOOL	Ozone Continuous $PM_{2.5}$	February 1, 2016	NO	N/A

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
12-115-0013	BEE RIDGE	Manual $PM_{2.5}$ Continuous $PM_{2.5}$	April 18, 2016	NO	N/A
12-115-1005	LIDO PARK	Ozone	October 20, 2015	NO	N/A
12-115-1006	PAW PARK	Ozone NO_2 Continuous PM_{10}	October 20, 2015	NO	N/A
12-115-2002	JACKSON ROAD	Ozone Continuous $PM_{2.5}$	April 19, 2016	NO	N/A
12-117-1002	SEMINOLE STATE COLLEGE	Ozone Manual $PM_{2.5}$ (2) Continuous PM_{10}	April 12, 2016	NO	N/A
12-127-2001	PORT ORANGE	Ozone	August 18, 2015	YES	Trees within 10 meters. Due to tree cutting limitations presented by property owners, Florida DEP will request a permanent waiver.
12-127-5002	DAYTONA - BLIND SERVICES	Ozone Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ Continuous PM_{10}	August 17, 2015	NO	N/A
12-129-0001	ST. MARKS WILDLIFE REFUGE	Ozone NO_y Trace SO_2 Trace CO Continuous $PM_{2.5}$	February 12, 2016	NO	N/A

*Includes site reviews conducted as of June 22, 2016.

APPENDIX D

Waiver Requests

Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
www.dep.state.fl.us

Monitoring Requirements Waiver Requests

Daniela Banu (NCore) Site - AQS Site #12-011-0034

The requirement to conduct lead monitoring at NCore sites has been removed from 40 CFR Part 58.19, Appendix D, due to the overwhelming evidence that non-source oriented levels of Pb at urban NCore sites were uniformly negligible. As is an expected result due to eliminating Pb from gasoline and refocusing the ambient network to characterize emissions at sites located in relatively close proximity to the remaining industrial lead sources, DEP is requesting a waiver from all activities associated with monitoring lead at the Broward County's NCore site, including installing and operating the monitors.

Lead Source Monitoring

TECO Big Bend in Hillsborough County, Duke Energy at Crystal River in Citrus County and JEA Northside in Duval County reported more than 0.5 tpy of total lead (elemental lead and lead compounds) in their 2014 Annual Operating Reports. According to 40 CFR Part 58, Appendix D, 4.5(ii), EPA's Regional Administrator may waive the requirement to conduct lead monitoring near lead sources that are expected to contribute to a maximum lead concentration in ambient air that exceeds the NAAQS if the State can demonstrate, with the use of modeling, that the lead source will not contribute to a maximum lead concentration exceeding 50 percent of the NAAQS.

DEP conducted modeling using AirMod for the three facilities. The results confirmed that all facilities' lead contributions resulted in concentrations less than 1 percent of the NAAQS, clearly meeting the less than 50 percent requirement. The results are summarized in Table 1.

Table 1. Lead Emissions and Modeled Ambient Concentrations

Company Owner	Facility Name	Total Lead (tpy)	Maximum Modeled 3-month average ($\mu g/m^3$)	Percent of Lead NAAQS
Duke Energy Florida	Crystal River Power Fossil Plant	1.088476	0.00040	0.27
Tampa Electric Company (TECO)	Big Bend Station	0.934627	0.00059	0.39
JEA	Northside/St. Johns River Power Park	0.911307	0.00050	0.33

NO_2 Near-Road Phase III Sites

DEP is requesting a waiver from all activities associated with near-road NO_2 monitoring for Core Based Statistical Areas (CBSAs) with populations between 500,000 and 1,000,000, due by January 1, 2017, including the installation and operation of monitors. All of the 98th percentile daily maximum one-hour NO_2 concentrations for Florida's near-road monitors ranged from 40 to 47 parts per billion (ppb), well below the NAAQS of 100 ppb. As a result of EPA's proposal to revise the minimum monitoring requirements for near-road NO_2 by removing the existing requirement to monitor in CBSAs with populations between 500,00 and 1,000,000, DEP requests that near-road NO_2 monitoring requirements in North Port-Bradenton-Sarasota, Lakeland, Cape Coral-Fort Myers, Deltona-Daytona Beach-Ormond Beach and Palm Bay-Melbourne-Titusville be waived. Table 2 lists the original near-road NO_2 phased monitoring schedule.

Table 2. Original Near-Road NO_2 Phased Monitoring Schedule

Phase	Requirement	Operational Due Date
Phase I	One near-road NO_2 monitor in CBSAs with a population of 1,000,000 or more	January 1, 2014
Phase II	A second near-road NO_2 monitor in CBSAs with a population of 2,500,000 or more or a population of 500,000 and an AADT of 250,000 or more	January 1, 2015
Phase III	One near-road NO_2 monitor in CBSAs with a population of 500,000 or more, but less than 1,000,000	January 1, 2017

Siting Criteria Waivers

Woodlawn - AQS Site #12-103-0012

DEP is requesting a waiver from probe siting requirements for the PM_{10} sampler in Pinellas County at the Woodlawn Site, AQS Site #12-103-0012. A site review conducted on July 8, 2015, found that the probe siting requirements in 40 CFR Part 58, Appendix E, Table E-4, could not be met. Trees were found to be within 10 meters of the PM_{10} sampler, specifically to the east.

Table 3. Site Review Information for Woodlawn, AQS Site #12-103-0012

Woodlawn Site	
AQS Site #	12-103-0012
Site Review Date	July 8, 2015
Site Name	Woodlawn
City (CBSA)	St. Petersburg
County	Pinellas
Location Latitude	82°39'30" W
Location Longitude	27°47'08" N
Address	1313 19th Street North
Network Type	State and Local Air Monitoring Station (SLAMS)
Pollutants Monitored	PM_{10}
Instrument Type (Make and Model)	Anderson 1200
Primary Standard Type (Make and Model)	Fixed Hi Vol Orifice
Objective	High Concentration
Spatial Scale	Neighborhood
Operating Schedule	Continuous
Probe Height	2.89 meters
Distance from Inlet to nearest:	Wall/Inlet = 29 meters/- Tree Dripline = 6.7 meters Road = 6.93 meters
Comments	The site is on an elevated platform beside 19th Street North

The PM_{10} monitoring objective is Highest Concentration. Figure 1 displays an aerial view from Google Earth indicating that the site is on the border of a neighborhood adjacent to an industrial area near the interstate, where elevated PM_{10} concentrations would not be unusual. The tree from which the waiver is being requested is to the east, as shown in Figure 2, and not in the direction of concern for the elevated PM_{10} concentrations, which are to the west. The site is open to the direction of concern as shown in Figure 3. These trees were planted decades after the site was established (see Figures 4 and 5).

Figure 1. Woodlawn Site in St. Petersburg

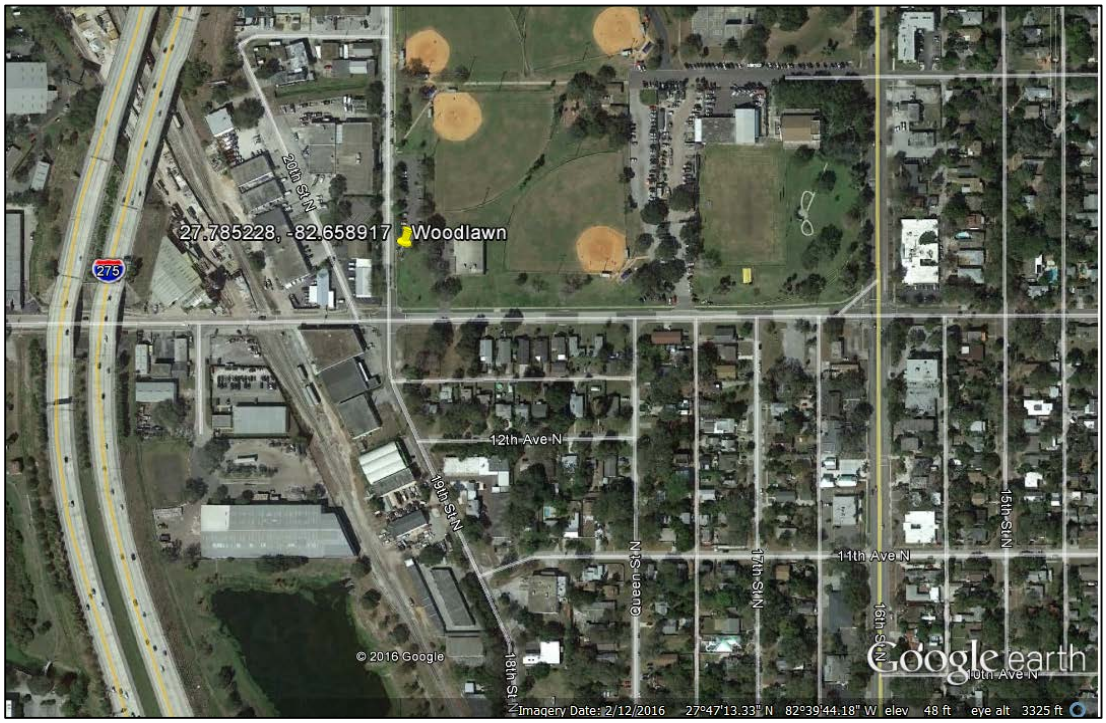


Figure 2. Facing East from Woodlawn Site

Figure 3. Woodlawn Site AQS #12-103-0012

Figure 4. Google Earth Image at Last Site Review before Enhancements

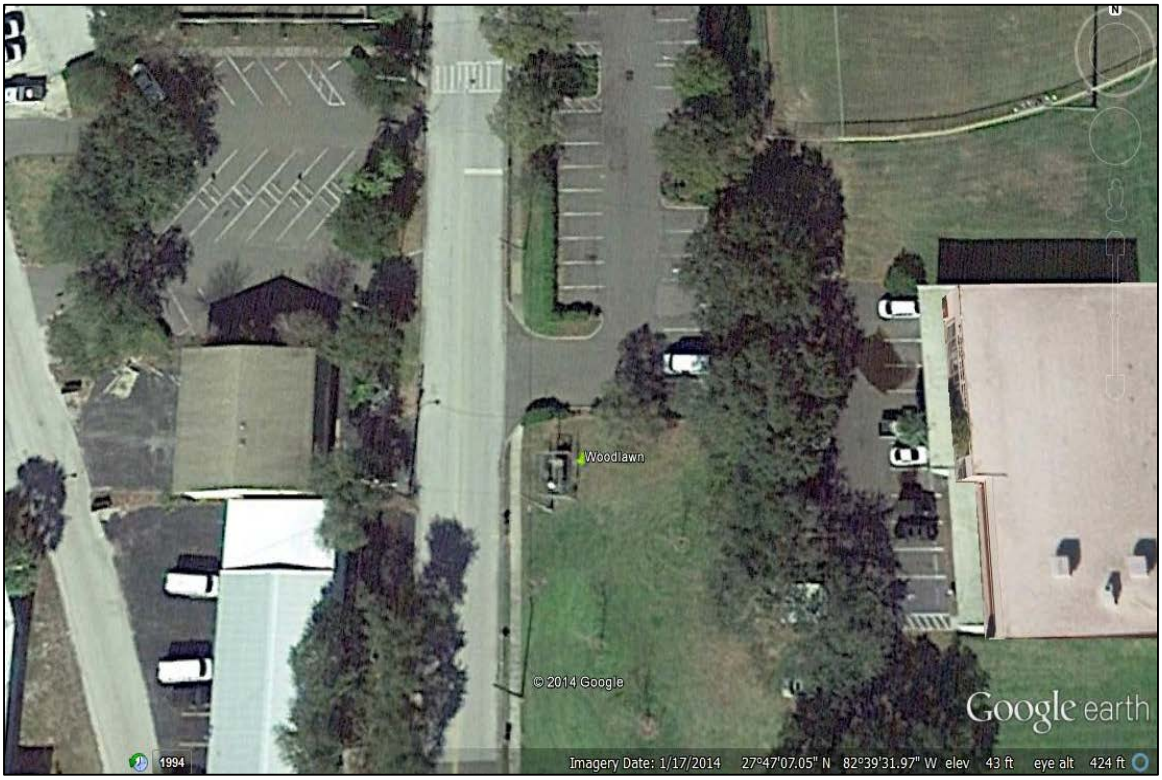
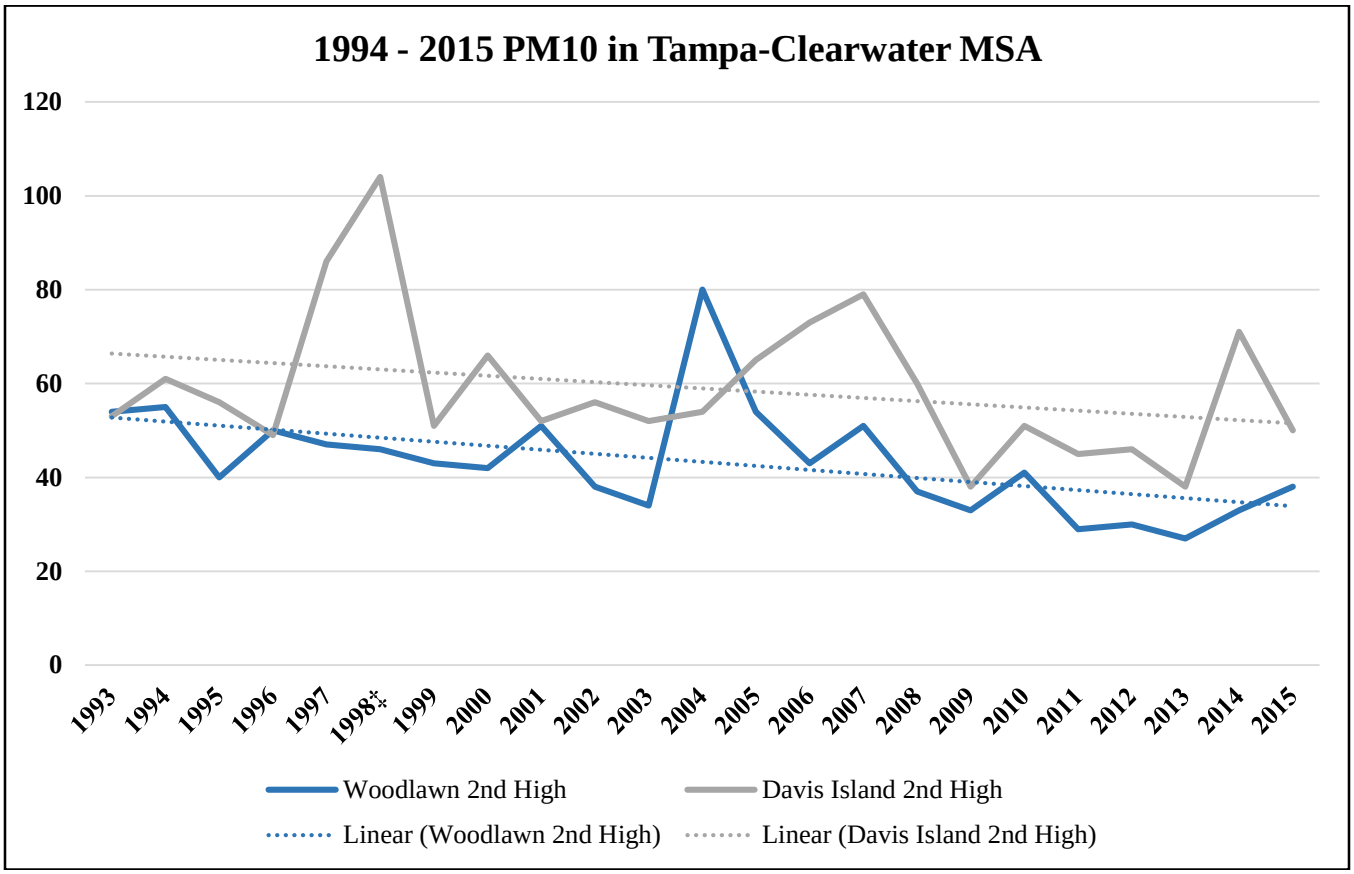


Figure 5. Street View from Google Earth Showing Newly Planted Additional Trees

A siting criteria waiver may be granted if the State can demonstrate that the monitoring concentrations at the site would remain representative of the area regardless of whether the siting criteria are being met. Figure 6 displays the PM_{10} concentrations from the Woodlawn Site and the Davis Island Site, AQS Site #12-057-1035, in neighboring Hillsborough County. The slope for the annual second high PM_{10} concentration at Woodlawn (0.8425) is very similar to the Davis Island PM_{10} annual second high slope of 0.8509. While PM_{10} is not as homogenous as $PM_{2.5}$, it is clear that the concentrations from the two sites track well and has not changed with the introduction of trees at the Woodlawn Site.

The site has been in operation since 1992 and is the only ambient air monitoring site in St. Petersburg. The continued operation of this site supports tracking of long-term air quality trends in the area.

Figure 6. Tampa-St. Petersburg-Clearwater MSA PM_{10}



Baptist Children's Home - AQS Site # 12-105-6006

DEP is requesting a temporary waiver from probe siting requirements for ozone, $PM_{2.5}$ and PM_{10} monitoring in Polk County at the Baptist Children's Home Site, AQS Site #12-105-6006. A site review conducted on February 16, 2016, found that the probe siting requirements in 40 CFR Part 58, Appendix E, 5(a) cannot be met in the current location. Trees surrounding the inlets have driplines within 10 meters and heights of more than twice the distance from the inlet to the dripline. While DEP is considering options to relocate the site on the property or nearby, a waiver from the specific probe inlet requirements is requested. Additional information is provided in Table 4 and Figures 7–12.

Table 4. Site Review Information for Baptist Children's Home, AQS Site #12-105-6006

Baptist Children's Home Site	
AQS Site #	12-105-6006
Site Review Date	February 16, 2016
Site Name	Baptist Children's Home
City (CBSA)	Lakeland
County	Polk
Location Latitude	28.028889
Location Longitude	-81.972222
Address	1015 Sikes Boulevard
Network Type	State and Local Air Monitoring Station (SLAMS)
Pollutants Monitored	Ozone, $PM_{2.5}$, PM_{10} and $PM_{2.5}$ continuous
Instrument Type (Make & Model)	TEI 49i (Ozone), TEI 2025 ($PM_{2.5}$), TEI 1400 (PM_{10}), TEI 1400 ($PM_{2.5}$ continuous)
Primary Standard Type (Make &	TEI 49i-PS (Ozone)
Objective	Population Exposure
Spatial Scale	Neighborhood
Operating Schedule	Continuous (Ozone, PM_{10} and $PM_{2.5}$ continuous); 1/3 day ($PM_{2.5}$)
Probe Height	4.2 meters (Ozone, PM_{10} and $PM_{2.5}$ continuous); 2.2 meters ($PM_{2.5}$)
Distance from Inlet to nearest:	Wall/Inlet = 2.1 meters(Ozone, PM_{10} and $PM_{2.5}$ continuous); 1.6 meters ($PM_{2.5}$) Tree Dripline = 6.7 meters (Ozone, PM_{10} and $PM_{2.5}$ continuous); 8.8 meters ($PM_{2.5}$) Road = 107 meters (Ozone, PM_{10} and $PM_{2.5}$ continuous); 97 meters ($PM_{2.5}$)
Comments	40 CFR Part 58 Appendix E, 5(a) cannot be met in current location, temporary waiver from siting requirements requested

Figure 7. Aerial image of Baptist Children's Home Site

Figure 8. North from Baptist Children's Home Site

Figure 9. East from Baptist Children's Home Site

Figure 10. South from Baptist Children's Home Site

Figure 11. West from Baptist Children's Home Site

Figure 12. Baptist Children's Home Site

Kissimmee Four Corners Fire Station - AQS Site #12-097-2002

DEP is requesting a temporary waiver from probe siting requirements for ozone monitoring in Osceola County at the Kissimmee Four Corners Site, AQS Site #12-097-2002. A site review conducted on October 14, 2015, found that the probe siting requirements in 40 CFR Part 58, Appendix E, 5(a) cannot be met in the current location. Driplines of trees were within 10 meters of the inlet and trees were found to be within twice the distance that the trees protrude above the height of the inlet. While DEP is considering options to relocate the site, a waiver from the specific probe inlet requirements is requested. Additional information is provided in Table 5 and Figures 13–17.

Table 5. Site Review Information for Kissimmee Four Corners Fire Station Site, AQS Site #12-097-2002

Kissimmee Four Corners Fire Station Site	
AQS Site #	12-097-2002
Site Review Date	October 14, 2015
Site Name	Kissimmee Four Corners Fire Station
City (CBSA)	Kissimmee
County	Osceola
Location Latitude	28.345555
Location Longitude	-81.636667
Address	8706 W. Irlo Bronson Memorial Highway
Network Type	State and Local Air Monitoring Station (SLAMS)
Pollutants Monitored	Ozone
Instrument Type (Make & Model)	TEI 49i
Primary Standard Type (Make & Model)	TEI 49i-PS
Objective	Population Exposure
Spatial Scale	Neighborhood
Operating Schedule	Continuous
Probe Height	4.1 meters
Distance from Inlet to nearest:	Wall/Inlet = 17 meters Tree Dripline = 6.5 meters Road = 120 meters
Comments	40 CFR Part 58, Appendix E, 5(a) cannot be met in current location, temporary waiver from siting requirements requested

Figure 13. Looking North from Kissimmee

Figure 14. Looking East from Kissimmee

Figure 15. Looking South from Kissimmee

Figure 16. Looking West from Kissimmee

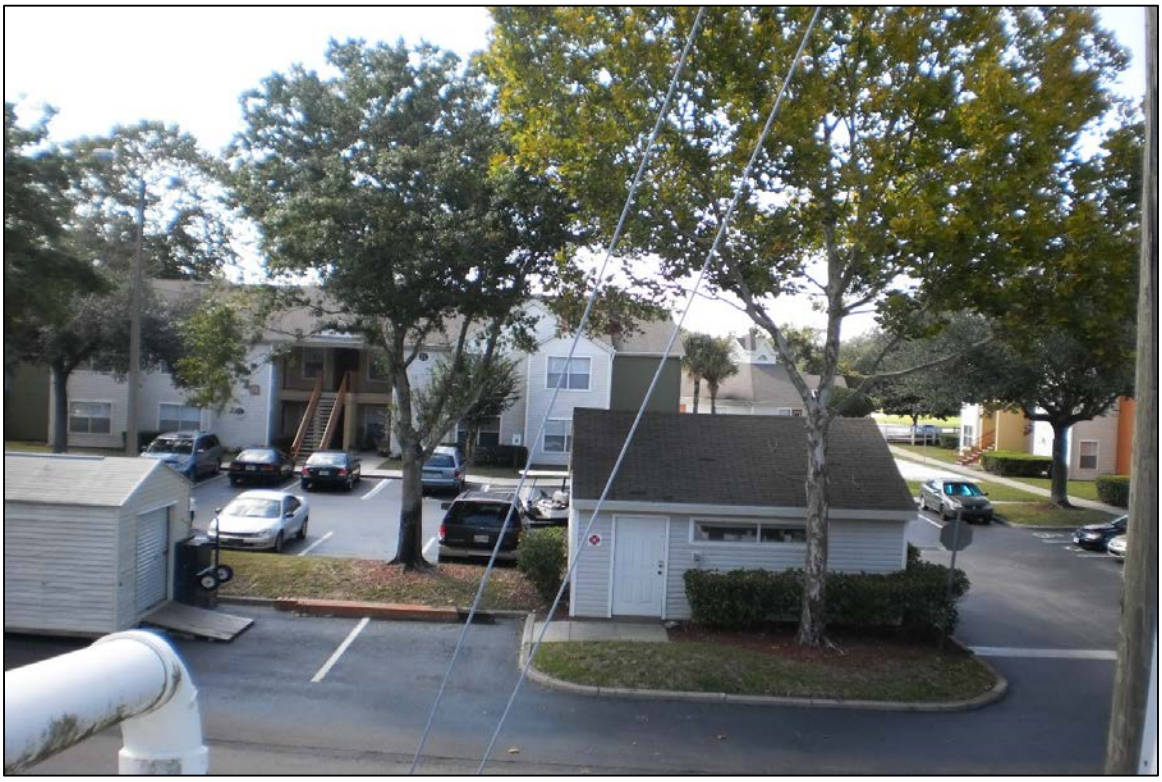


Figure 17. Kissimmee Site

Fort Myers Beach - AQS Site #12-071-3002

DEP is requesting a waiver from probe siting requirements, specifically the probe and inlet requirements, for the ozone monitoring site at the Fort Myers Beach Site, AQS Site #12-071-3002, in Lee County. A site review conducted on July 22, 2015, discovered that the probe siting requirements in 40 CFR Part 58, Appendix E, 5(a) cannot not be met in the current location due to the recent addition of trees. The driplines of trees are within 10 meters of the inlet and the distance from the trees to the inlet is less than twice the height that the trees protrude above the inlet. However, the Palm trees have no canopy at the inlet height and are located to the east and west of the site, which is not in the direction of the maximum concentration ozone (typically southward). Additional information is provided in Table 6 and Figures 18–23.

Table 6. Site Review Information for Fort Myers Beach Site, AQS Site #12-071-3002

Fort Myers Beach	
AQS Site #	12-071-3002
Site Review Date	July 22, 2015
Site Name	Fort Myers Beach
City (CBSA)	Cape Coral – Fort Myers
County	Lee
Location Latitude	26.448881
Location Longitude	-81.939881
Address	2731 Oak Street
Network Type	State and Local Air Monitoring Station (SLAMS)
Pollutants Monitored	Ozone
Instrument Type (Make & Model)	TEI 49i
Primary Standard Type (Make & Model)	TEI 49i-PS
Objective	Population Exposure
Spatial Scale	Neighborhood
Operating Schedule	Continuous
Probe Height	4.16 meters
Distance from Inlet to nearest:	Wall/Inlet = 36 meters Tree Dripline = 6.6 meters Road = 140 meters
Comments	40 CFR Part 58, Appendix E, 5(a) cannot be met, waiver from siting requirements requested

Figure 18. North from Fort Myers Beach Site

Figure 19. East from Fort Myers Beach Site

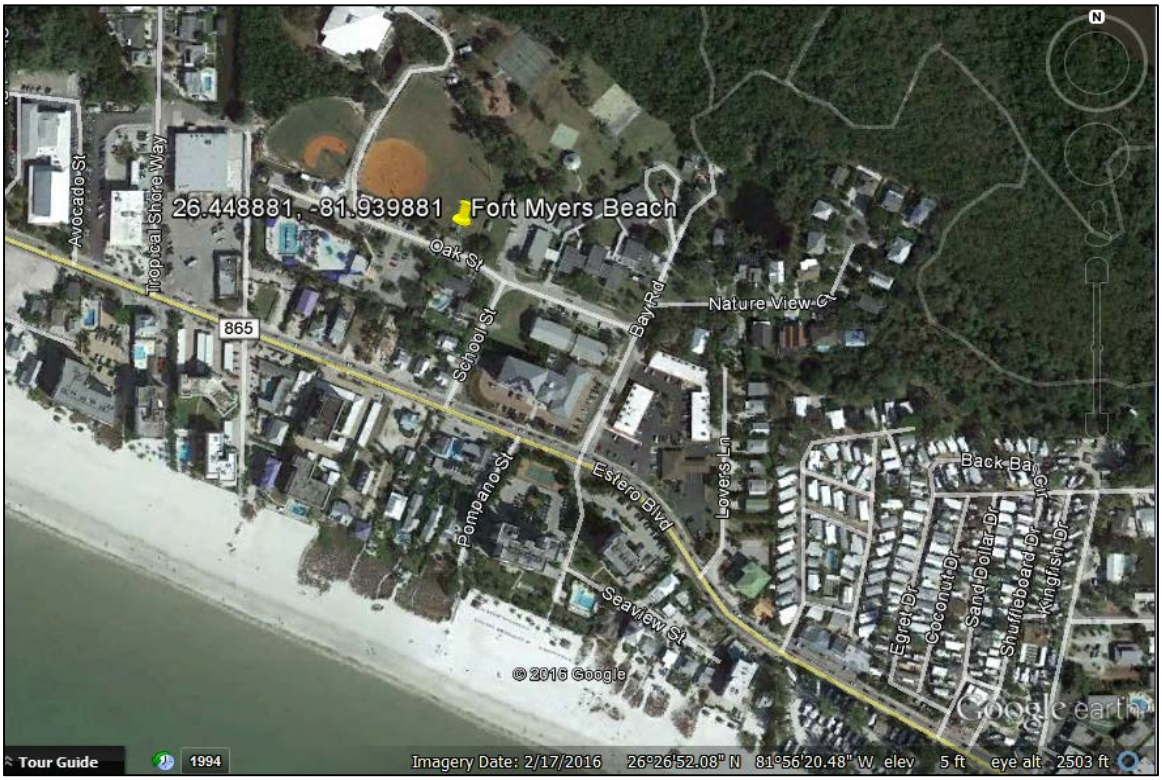
Figure 20. South from Fort Myers Beach Site

Figure 21. West from Fort Myers Beach Site

Figure 22. Trees Referenced at Fort Myers Beach Site

Note: Distance is to the dripline of the indicated tree, not the trunk.

Figure 23. Aerial of Fort Myers Beach Site



Port Orange Site - AQS Site # 12-127-2001

DEP is requesting a waiver from the probe siting requirements for the ozone monitoring site at the Port Orange Site, AQS Site # 12-127-2001, in Volusia County. A site review conducted on May 19, 2016, discovered that the probe siting requirements in 40 CFR Part 58 Appendix E, Table E-4 could not be met. The tree from which the waiver is being requested is to the north-northwest, and not in the direction of concern for the elevated or routine ozone concentrations, which are to the east. Site information is provided in Table 7 and Figures 24–27.

Table 7. Site Review Information for Port Orange Site, AQS Site #12-127-2001

Port Orange	
AQS Site #	12-127-2001
Site Review Date	May 19, 2016
Site Name	Port Orange
City (CBSA)	Port Orange (Deltona-Daytona Beach-Ormond Beach)
County	Volusia
Location Latitude	29.109131
Location Longitude	-80.993778
Address	5200 Spruce Creek Road
Network Type	State and Local Air Monitoring Station (SLAMS)
Pollutants Monitored	Ozone
Instrument Type (Make & Model)	TEI 49i
Primary Standard Type (Make & Model)	TEI 49i-PS
Objective	High Concentration and Population Exposure
Spatial Scale	Neighborhood
Operating Schedule	Continuous
Probe Height	4.19 meters
Distance from Inlet to nearest:	Wall/Inlet = 2 meters Tree Dripline = 6.6 meters Road = 35 meters
Comments	40 CFR Part 58, Appendix E, Table E-4 cannot be met, waiver from siting requirements requested

The ozone monitoring objective is High Concentration and Population Exposure. Figure 24 displays the aerial view from Google Earth indicating that the site is on the eastern edge of Port Orange. The tree from which the waiver is being requested is to the north-northwest, as shown in Figure 25 and not in the direction of concern for the elevated or routine ozone concentrations, which are to the east. The site is open to the direction of concern as shown in Figure 26.

Figure 24. Arial View of Port Orange Site

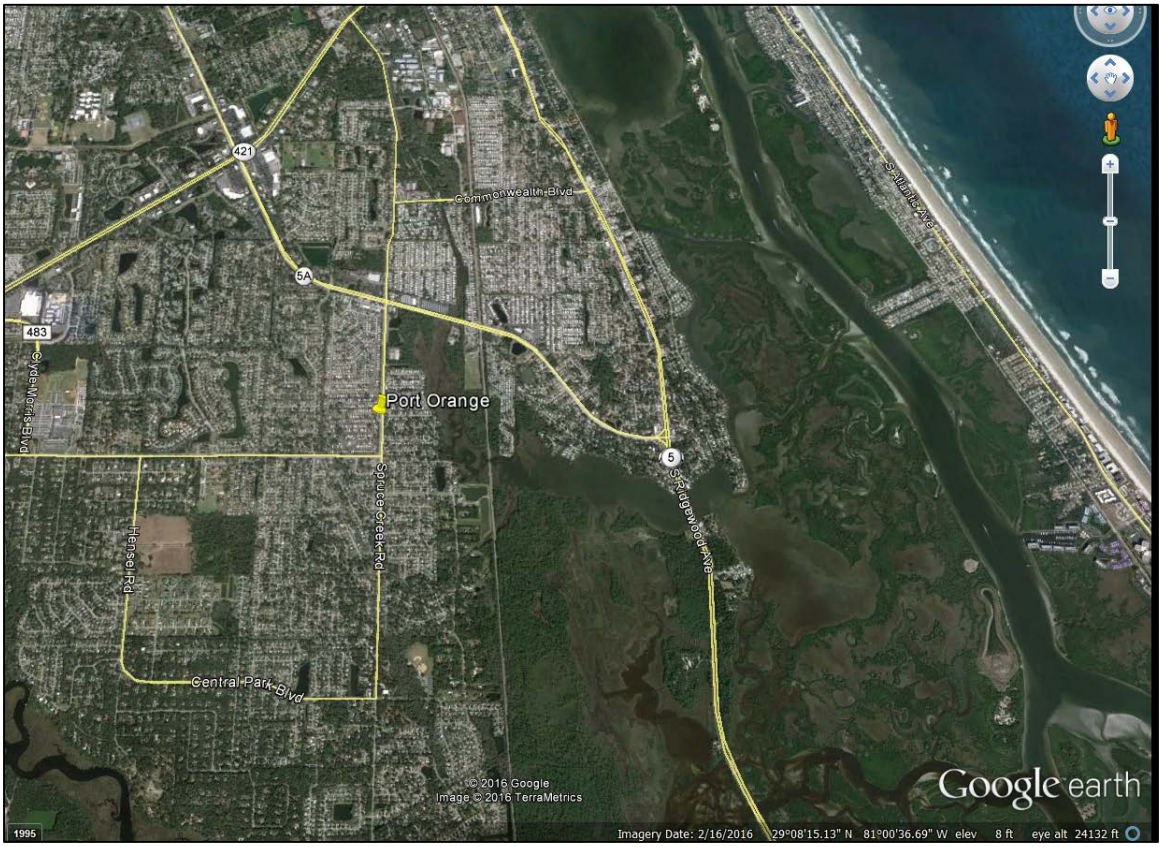


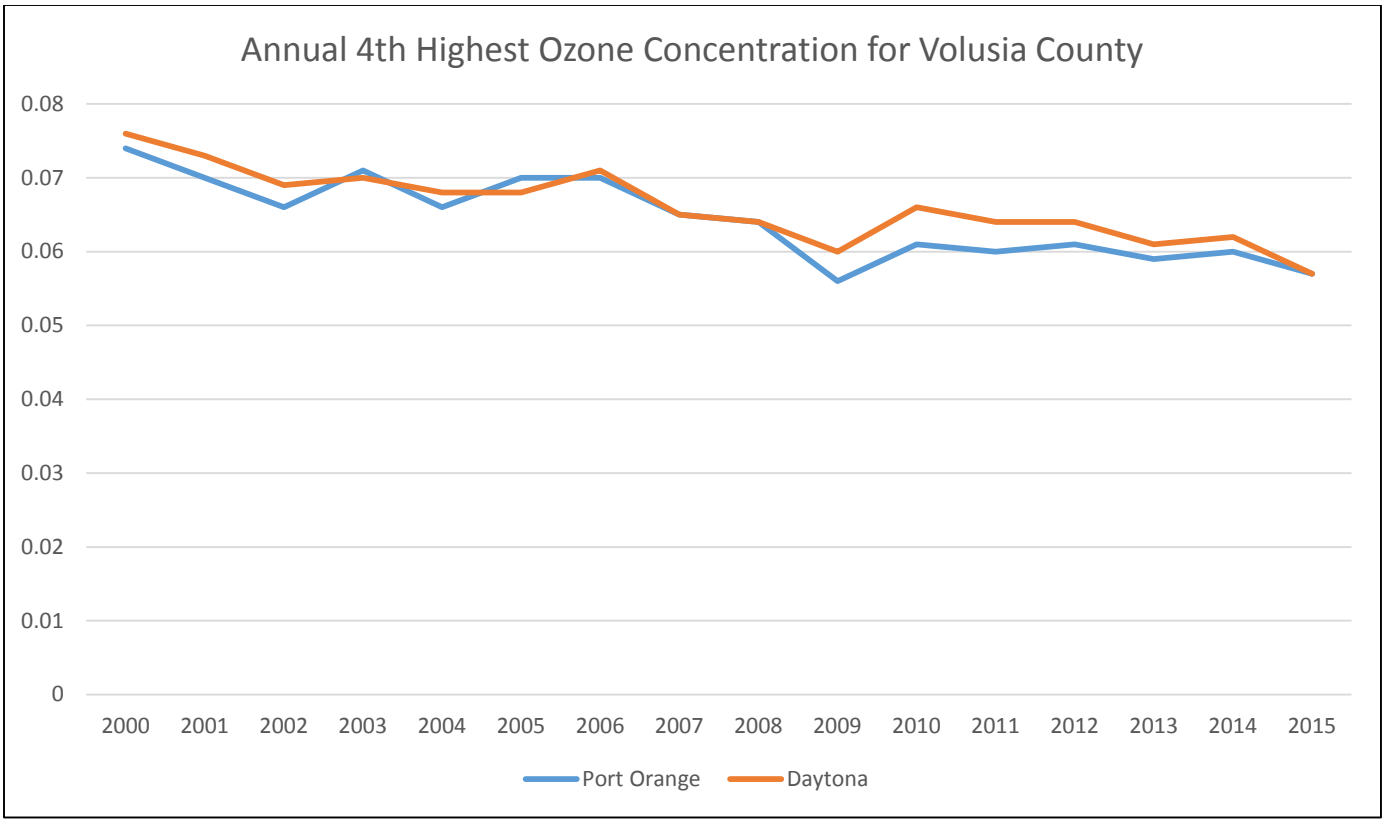
Figure 245. Facing Large Pine Tree North-Northwest from the Site

Figure 26. Facing East from Port Orange Site (Tree is not an obstruction from the height of the inlet.)

A siting criteria waiver may be granted if the State can demonstrate that the monitoring concentrations at the site would remain representative of the area regardless of whether the siting criteria are being met. Figure 27 displays the ozone concentrations from the Port Orange Site and the Daytona Beach site, AQS Site #12-127-5002, also in Volusia County. The slope for the annual 4th high ozone concentration at Port Orange (-0.001) is very similar to the Daytona ozone annual 4th high slope of -.0009. Ozone is generally homogeneous and the graph and corresponding slopes demonstrate that the Port Orange ozone concentrations are not significantly biased by the presence of the pine tree to the north-northwest.

The site has been in operation since 1992, and the continued operation of this site supports tracking of long-term air quality trends in the area.

Figure 27. Ozone Concentrations for Volusia County from 2000 to 2015



APPENDIX E

Network Equipment Evaluation

Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
www.dep.state.fl.us

Network Equipment Evaluation

The statewide air monitoring network equipment evaluation must be submitted to EPA with the annual network plan. The evaluation is conducted to determine the condition of the equipment and whether new equipment is needed for operational readiness of the network. Equipment is categorized as “Good”, “Fair”, or “Poor”. Any equipment categorized as “Poor” should be replaced and/or removed from inventory. The inventory reports are provided below.

Florida DEP

Property Inventory - 105 Grant Commitment Report
As of: 5/25/2016

Property No.	Description	Location	Acquisition Date	Age	Initial Cost	Serial Number	Condition	Status
14796	UltraSonic Bath 220	(MRAS Shop D101)	1/1/1980	36	$500.00	A1162	Good	Active
20552	Sencore LC 53	(AC-14 Shelf A)	1/1/1980	36	$350.00	3448433M	Good	Active
21179	Dwyer Instruments Incline Manometer	A0330004	3/15/1985	31	$500.00	400-10	Good	Active
26441	Aluma Tower	C1275002	10/16/1987	29	$1,100.00	n/a	Good	Active
26880	Thermo Environmental Instruments, Inc 43A	D1052006	1/1/1989	27	$8,000.00	43A-22800-207	Good	Active
30253	Anderson 1200	C1275002	8/6/1991	25	$4,070.00	3834	Good	Active
30277	Wells Cargo	C1272001	10/2/1991	25	$9,020.00	1WC200J19M3022127	Good	Active
30279	Wells Cargo EW2011	E0710005	10/2/1991	25	$9,020.00	1WC200J12M3022129	Good	Active
30280	Wells Cargo EW2011	D1012001	10/2/1991	25	$9,020.00	EW2011WC22129S	Good	Active
30281	Wells Cargo	D1056006	10/2/1991	25	$9,020.00	EW2011WC22131S	Good	Active
31033	Aluma Tower	C0972002	11/21/1991	25	$1,148.00	na	Good	Active
31034	Aluma Tower	C1272001	11/21/1991	25	$1,148.00	AT4794-C-11-8	Good	Active
31036	Aluma Tower	D1056006	11/21/1991	25	$1,148.00	n/a	Good	Active
31037	Aluma Tower	D1012001	11/21/1991	25	$1,148.00	n/a	Good	Active
31096	Anderson	C0090007	11/20/1991	25	$0.00	5957	Good	Active
31305	Wells Cargo	C0830003	11/21/1991	25	$9,020.00	1WC200JIXN302977	Good	Active
34341	Wells Cargo	A0330018	6/16/1993	23	$9,080.00	1WC200J11P3025611	Good	Active
87214	Aluma Tower T-135	C1171002	10/19/1993	23	$1,175.00	n/a	Good	Active
87215	Aluma Tower T-135	(MRAS Shop D101)	10/19/1993	23	$1,175.00	n/a	Good	Active
87449	Dasibi 5008	(A137I)			$13,350.00	207	Good	Active
88409	Wells Cargo	B0030002	12/12/1994	21	$9,074.93	1WC200J1153030266	Good	Active
88410	Wells Cargo	D1050010	9/23/1994	22	$0.00	1WC200J14R3028876	Good	Active
89330	Wells Cargo	F1110013	9/1/1994	22	$9,500.00	n/a	Good	Active
89695	Aluma Tower	A0590004	10/20/1994	22	$1,300.00	n/a	Good	Active
89696	Aluma Tower	B0030002	10/20/1994	22	$1,300.00	n/a	Good	Active
89697	Aluma Tower T-135-35'	F1110013	10/20/1994	22	$1,300.00	n/a	Good	Active
89717	Wells Cargo EW2011	C1171002	8/15/1994	22	$9,074.93	1WC200J16R3028877	Good	Active
89802	Bios DC-2	F0850007	12/17/1994	21	$3,185.73	B0255	Good	Active
89803	Bios DC-2	(OAM QA Room B105)	12/17/1994	21	$3,185.73	B0254	Good	Active
89804	Bios DC-2	(Standards Lab Room B105)	12/17/1994	21	$3,185.74	B0252	Good	Active
90534	Dell	E0150002	2/6/1995	21	$3,455.00	2Q70C	Good	Active
90594	Wells Cargo	C1275002	1/10/1995	21	$9,500.00	1WC200J10R3029641	Good	Active
91942	Wells Cargo Gas Cylinder Rack	(MRAS Shop D101A)	12/6/1995	20	$1,150.00	n/a	Good	Active
91944	Wells Cargo Gas Cylinder Rack	(Trailer Dep 3658)	12/6/1995	20	$1,150.00	n/a	Good	Active
91947	Wells Cargo Gas Cylinder Rack	(Trailer Dep 3658)	12/6/1995	20	$1,450.00	n/a	Good	Active
92309	Met One Instruments Cup 'n Vane	B0890005	1/1/1991	25	$750.00	NA	Good	Active
92312	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	1/1/1991	25	$750.00	n/a	Good	Active
93279	Aluma Tower	A0330004	9/1/1995	21	$1,388.00	n/a	Good	Active
93280	Aluma Tower	B0013011	9/1/1995	21	$1,388.00	n/a	Good	Active
93281	Aluma Tower T-135	E0713002	9/1/1995	21	$1,388.00	n/a	Good	Active
93289	NCI 124	A0330004	12/6/1995	20	$2,983.90	CVO53828591	Good	Active
93292	NCI 124	(MRAS Shop D101B)	12/6/1995	20	$2,983.90	CVO53828588	Good	Active
93787	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	1/1/1992	24	$750.00	n/a	Good	Active
93792	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	1/1/1992	24	$750.00	n/a	Good	Active
93795	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	1/1/1992	24	$750.00	NA	Good	Active
93798	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	1/1/1992	24	$750.00	n/a	Good	Active
93799	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	1/1/1992	24	$750.00	NA	Good	Active
93874	Bios DC-2NSH	(Southwest District Office)	12/26/1995	20	$2,470.00	B-398	Good	Active
93875	Bios DC-2	(MRAS Shop D101A)	12/26/1995	20	$2,470.00	B399	Good	Active
93876	Bios DC-2	A0330004	12/26/1995	20	$2,470.00	n/a	Good	Active
93877	Bios DC2	(Central District Office)	1/10/2011	5	$0.00	B403	Good	Active
93878	Bios DC-2	(Northeast District Office)	12/26/1995	20	$2,470.00	B404	Good	Active
93883	Wells Cargo	B0013011	6/21/1996	20	$9,381.00	1WC200J16T3034007	Good	Active
93884	Wells Cargo EW2011	C0094001	6/21/1996	20	$9,381.00	1WC200J18T3034008	Good	Active
95757	Rittal	(MRAS Shop D101A)	4/15/1996	20	$1,114.31	4418-210-7565	Good	Active
96282	Mettler	(Standards Lab Room B105)	4/1/1997	19	$9,608.75	1115282625	Good	Active
99069	Bios DC-2	E0710005	2/3/1998	18	$3,638.89	B-678	Good	Active
99070	Bios DC-2	(Orange County)	2/3/1998	18	$3,638.88	B680	Good	Active
99914	Wells Cargo	G0730012	3/25/1998	18	$9,930.00	1WC200J11W3039118	Good	Active
100505	Aluma Tower	E0712002	11/19/1997	19	$1,617.35	n/a	Good	Active
100506	Aluma Tower	G0730012	11/19/1997	19	$1,617.36	n/a	Good	Active
100507	Aluma Tower	C0830003	11/19/1997	19	$1,617.35	AT71198-102-3	Good	Active
104332	Wells Cargo	B0890005	11/10/1999	17	$7,660.00	1WC200J12X3042742	Good	Active
104333	Wells Cargo EW2011	B0470015	11/10/1999	17	$7,660.00	1WC200J14X3042743	Good	Active
104334	Wells Cargo	C0090007	3/17/1999	17	$7,660.00	1WC200J16X3042744	Good	Active
105200	Chinook Engineering FTS	(Duval County)	12/14/1999	16	$1,095.00	57-004506-00001	Good	Active

105740	Environics 6103	(Standards Lab Room B105)	10/31/2002	14	$11,310.30	2910	Good	Active
105948	Sony Mavica	(OAM QA Room B105)	11/10/1999	17	$903.95	123035	Good	Active
106222	Thermo Environmental Instruments, Inc 42C	(Palm Beach County)	12/14/1999	16	$8,489.00	3860-636	Good	Active
106605	Bios DC-2M	(Standards Lab Room B105)	7/31/2002	14	$3,147.25	B 1241	Good	Active
106606	Bios DC-2	E0210004	8/21/2002	14	$3,147.25	B 1242	Good	Active
106634	Aluma Tower	C0090007	1/28/2000	16	$1,590.00	AT91204-L1-4	Good	Active
106635	Aluma Tower Met Tower	B0470015	1/28/2000	16	$1,590.00	n/a	Good	Active
106636	Aluma Tower	B0890005	1/28/2000	16	$1,590.00	n/a	Good	Active
106637	Aluma Tower	(MRAS Shop D101)	1/28/2000	16	$1,590.00	n/a	Good	Active
106638	Aluma Tower	C0830004	1/28/2000	16	$1,590.00	AT91204-L1-1	Good	Active
106639	Aluma Tower	C0690002	1/28/2000	16	$1,590.00	AT91204-4-8	Good	Active
106640	Aluma Tower	B0230002	1/28/2000	16	$1,590.00	n/a	Good	Active
106641	Aluma Tower	(MRAS Shop D101)	1/28/2000	16	$1,590.00	n/a	Good	Active
106642	Aluma Tower	A0050006	1/28/2000	16	$1,590.00	AT91204-L1-#9	Good	Active
106643	Aluma Tower T-135	A1130015	1/28/2000	16	$1,590.00	n/a	Good	Active
106644	Aluma Tower	D1010005	1/28/2000	16	$1,590.00	AT9120405-6	Good	Active
106669	R&P Partisol 2025	C1171002	1/13/2000	16	$11,124.34	2025A211289906	Good	Active
106670	R&P 1400AB	(AC-17)	1/13/2000	16	$11,124.34	140AB227839911	Good	Active
106672	R&P 1400AB	C0090007	1/13/2000	16	$18,961.69	140AB227819911	Good	Active
106673	R&P 1400AB	A0330004	1/13/2000	16	$18,961.69	140AB227849911	Good	Active
106674	R&P 1400AB	(Orange County)	1/13/2000	16	$18,961.69	140AB227859911	Good	Active
106801	Bios DC-2	(Standards Lab Room B105)	1/10/2000	16	$3,261.00	B936	Good	Active
107234	Opsis AR-500	(Weigh Lab Room B107)	5/8/2000	16	$163,950.00	AR500-E-665	Good	Active
107471	Chinook Engineering Streamline FTS	(Standards Lab Room B105 Cab A)	6/1/2000	16	$1,120.00	MRAS-4	Good	Active
108018	Hastings	(Standards Lab Room B105)	10/7/2002	14	$3,125.00	1392900001	Good	Active
108019	Hastings	(Standards Lab Room B105)	10/7/2002	14	$3,125.00	1392900002	Good	Active
108020	Hastings	(OAM QA Room B105)	10/7/2002	14	$3,125.00	1392900003	Good	Active
108180	Dasibi 5008	(OAM QA Room B105)	8/29/2000	16	$12,580.00	873	Good	Active
108298	Opsis 500	(Standards Lab Room B105)	8/1/2000	16	$19,150.00	OC500-1-029	Good	Active
108299	Aadco	(OAM QA Room B416)	7/10/2000	16	$5,799.89	2673	Good	Active
108760	Dasibi 5008	(OAM QA Room B105)	10/9/2000	16	$13,388.75	860	Good	Active
108995	BGI Incorporated TriCal	L0860029	12/11/2002	13	$2,028.00	66	Good	Active
108997	BGI Incorporated TriCal	B0011003	12/11/2002	13	$2,028.00	67	Good	Active
109126	BGI Incorporated TriCal	(MRAS Shop D101A)	12/11/2002	13	$2,028.00	68	Good	Active
109177	BGI Incorporated TriCal	(MRAS Shop D101A)	12/11/2002	13	$2,028.00	69	Good	Active
109195	Dasibi 5008	(OAM QA Room B105)	3/5/2001	15	$13,388.75	910	Good	Active
109218	R&P 1400AB	E0210004	3/20/2001	15	$16,975.00	140AB234100012	Good	Active
109219	R&P 1400AB	C1275002	3/20/2001	15	$16,975.00	140AB233270011	Good	Active
109620	Environics Portable Mass Flow System	(Standards Lab Room B105)	5/4/2001	15	$7,495.00	FEPA001	Good	Active
109621	Environics Portable Mass Flow System	(Standards Lab Room B105)	5/4/2001	15	$7,495.00	FEPA002	Good	Active
109622	Environics Portable Mass Flow System	(Standards Lab Room B105)	5/4/2001	15	$7,495.00	FEPA003	Good	Active
110129	Wells Cargo WC200E	B0890010	2/18/2003	13	$10,277.00	1WC200E1733049495	Good	Active
110689	Aluma Tower	E0550003	8/27/2001	15	$1,660.00	n/a	Good	Active
110690	Aluma Tower	D0170006	8/27/2001	15	$1,660.00	n/a	Good	Active
110946	R&P 1400AB	D1056006	5/8/2001	15	$16,975.00	140AB235430103	Good	Active
111218	Met One Instruments 50.5	(MRAS Shop D101)	10/15/2001	15	$1,350.00	A5875	Good	Active
111365	Fisher Scientific	(Weigh Lab Room B107)	10/9/2001	15	$1,198.13	108N0198	Good	Active
111465	Weller WRS-3000	(MRAS Shop D101B)	11/13/2001	15	$1,494.00	n/a	Good	Active
111487	R&P 1400AB	C1275002	11/13/2001	15	$16,995.00	140AB238020110	Good	Active
111524	Dasibi 5008	(OAM QA Bruce Ferrier)	11/15/2001	15	$12,580.00	939	Good	Active
111717	Opsis 150MM Cell	(OAM QA Room B105)	5/10/2002	14	$3,600.00	n/a	Good	Active
111718	Opsis 110 mm Cell	(OAM QA Room B105)	5/10/2002	14	$2,600.00	n/a	Good	Active
111719	Opsis	(Hillsborough County)	5/10/2002	14	$12,950.00	n/a	Good	Active
111720	Opsis OC500	(OAM QA Room B105)	5/10/2002	14	$12,950.00	n/a	Good	Active
111721	Opsis Optical Bench	(MRAS Shop D101)	5/10/2002	14	$21,870.00	n/a	Good	Active
112109	R&P 1400AB	C0090007	2/7/2002	14	$17,460.00	140AB239110201	Good	Active
112110	Wells Cargo	A0590004	1/17/2002	14	$10,812.00	1WC200J2223047926	Good	Active
113829	Hastings Mass Flow Controller	(Standards Lab Room B105)	7/26/2002	14	$1,629.00	AW02313002	Good	Active
113830	Hastings Mass Flow Controller	(OAM QA Room B105)	7/26/2002	14	$1,629.00	AW02313003	Good	Active
113831	Hastings Mass Flow Controller	(OAM QA Room B105)	9/10/2002	14	$1,629.00	AW02313004	Good	Active
113832	Hastings Mass Flow Controller	(OAM QA Room B105)	9/10/2002	14	$1,629.00	AW02313001	Good	Active
114161	R&P 1400A	(MRAS Shop D101)	12/25/2002	13	$16,995.00	140AB242620208	Good	Active
114162	R&P 1400A	E0710005	12/25/2003	12	$16,995.00	140AB242930209	Good	Active
114696	Met One Instruments 083D-1-35	E0550003	1/16/2003	13	$1,142.50	B5989	Good	Active
114706	Environics 6103	(OAM QA Room B105)	2/19/2003	13	$11,310.30	3046	Good	Active
114707	Environics 6103	(Standards Lab Room B105)	2/19/2003	13	$11,310.30	3062	Good	Active
115149	Lightning Master Corporation	B0890010	12/18/2003	12	$2,334.00	n/a	Good	Active
115150	Lightning Master Corporation	C0972002	12/18/2003	12	$2,334.00	n/a	Good	Active

115151	Lightning Master Corporation	C0690002	1/10/2003	13	$2,334.00	202103112	Good	Active
115152	Lightning Master Corporation	F1110013	1/10/2003	13	$2,334.00	n/a	Good	Active
115153	Lightning Master Corporation	B1071008	12/18/2003	12	$2,334.00	202103111	Good	Active
115154	Lightning Master Corporation	B0013011	12/18/2002	13	$2,334.00	202103452	Good	Active
115155	Lightning Master Corporation	(MRAS Shop D101B)	12/18/2002	13	$2,334.00	202103451	Good	Active
115156	Lightning Master Corporation	E0713002	12/18/2002	13	$2,334.10	n/a	Good	Active
115157	Lightning Master Corporation	G0730013	1/6/2003	13	$2,334.00	n/a	Good	Active
115158	Lightning Master Corporation	G0730012	12/18/2002	13	$2,334.00	304005441	Good	Active
115159	Lightning Master Corporation	A0330004	2/25/2003	13	$8,587.55	n/a	Good	Active
115507	R&P 1400AB	L0310098	5/13/2003	13	$17,460.00	140AB245470304	Good	Active
115508	R&P 1400A	D1056006	5/13/2003	13	$17,460.00	140AB245490304	Good	Active
116105	Hastings	(OAM QA Room B105)	4/21/2003	13	$1,310.00	16156	Good	Active
116106	Hastings	(OAM QA Room B105)	4/21/2003	13	$1,310.00	16157	Good	Active
117235	Lightning Master Corporation	B0030002	7/17/2003	13	$2,421.56	n/a	Good	Active
117236	Lightning Master Corporation	D1010005	5/23/2003	13	$2,421.67	n/a	Good	Active
117237	Lightning Master Corporation	E0210004	7/17/2003	13	$2,421.56	n/a	Good	Active
117238	Environics	(OAM QA Room B105)	6/5/2003	13	$1,310.00	16527	Good	Active
117239	Environics	(OAM QA Room B105)	6/5/2003	13	$1,310.00	16528	Good	Active
117393	Calibration Bath	(Standards Lab Room B105)	6/10/2003	13	$9,972.90	803050081	Good	Active
117858	Foil Kit	(OAM QA Mary Clark)	7/17/2003	13	$1,185.00	613	Good	Active
117859	Foil Kit	(OAM QA Bruce Ferrier)	7/17/2003	13	$1,185.00	614	Good	Active
117860	Foil Kit	(Standards Lab Room B105 Cab D)	7/17/2003	13	$1,185.00	631	Good	Active
117862	Foil Kit	(OAM QA Room B105)	6/25/2003	13	$1,185.00	AT03243003	Good	Active
117863	MASS FLOW CONTROLLER	(OAM QA Room B105)	4/9/2003	13	$1,592.96	AT03133039	Good	Active
118079	Bios ML 800	(Standards Lab Room B105)	10/10/2003	13	$33,075.00	n/a	Good	Active
119263	ESC 8832	C1275002	2/24/2004	12	$6,270.00	A0457	Good	Active
119264	ESC 8832	A1130015	8/12/2004	12	$6,270.00	A0458	Good	Active
119266	ESC 8832	D0170006	2/20/2004	12	$7,220.00	A0464	Good	Active
119267	ESC 8832	(MRAS Shop D101C)	8/12/2004	12	$6,270.00	A0465	Good	Active
119269	ESC 8832	D1056005	8/12/2004	12	$6,270.00	A0467	Good	Active
119270	ESC 8832	C0830003	2/24/2004	12	$6,270.00	A0473	Good	Active
119271	ESC 8832	(MRAS Shop D101)	3/1/2004	12	$6,270.00	A0487	Good	Active
119274	ESC 8832	C0094001	3/1/2004	12	$6,270.00	A0490	Good	Active
119275	ESC 8832	D0810028	3/1/2004	12	$6,270.00	A0491	Good	Active
119276	ESC 8832	A0330004	8/12/2004	12	$6,270.00	A0492	Good	Active
119278	ESC 8832	B0890010	3/1/2004	12	$6,270.00	A0494	Good	Active
119279	ESC 8832	F1110013	3/1/2004	12	$6,270.00	A0495	Good	Active
119280	ESC 8832	C0972002	3/1/2004	12	$6,270.00	A0496	Good	Active
119283	ESC 8832	E0710005	8/12/2004	12	$6,220.00	A0589	Good	Active
119284	ESC 8832	E0210004	5/13/2004	12	$6,270.00	A0590	Good	Active
119285	ESC 8832	B0030002	5/13/2004	12	$6,270.00	A0591	Good	Active
119286	ESC 8832	E0713002	5/13/2004	12	$6,270.00	A0592	Good	Active
119287	ESC 8832	D1012001	8/12/2004	12	$6,270.00	A0593	Good	Active
119288	ESC 8832	D1010005	5/13/2004	12	$6,270.00	A0594	Good	Active
119289	ESC 8832	C0090007	5/13/2004	12	$6,270.00	A0595	Good	Active
119290	ESC 8832	A0590004	5/13/2004	12	$6,270.00	A0596	Good	Active
119291	ESC 8832	C0690002	5/13/2004	12	$6,270.00	A0597	Good	Active
119293	ESC 8832	C0830004	8/12/2004	12	$6,270.00	A0599	Good	Active
119294	ESC 8832	D1056006	5/13/2004	12	$6,270.00	A0600	Good	Active
119295	ESC 8832	B0013011	5/13/2004	12	$6,270.00	A0601	Good	Active
119296	ESC 8832	E0712002	5/13/2004	12	$6,270.00	A0602	Good	Active
119297	ESC 8832	(Broward County)	5/13/2004	12	$7,220.00	A0603	Good	Active
119753	MASS FLOW CONTROLLER	(OAM QA Room B105)	3/25/2004	12	$1,592.42	AT04093008	Good	Active
119754	Aadco	(AC-14)	3/29/2004	12	$6,297.00	2820	Good	Active
120171	Chinook Engineering FTS	(Standards Lab Room B105 Cab I)	4/21/2004	12	$1,835.00	HL1	Good	Active
120172	Chinook Engineering FTS	(Standards Lab Room B105 Cab I)	4/21/2004	12	$1,835.00	HL2	Good	Active
121000	Lightning Master Corporation	G1290001	9/27/2004	12	$2,810.00	304005441	Good	Active
121305	Environics 6103	(Standards Lab Room B105)	9/1/2004	12	$12,948.50	3285	Good	Active
121345	Lightning Master Corporation	A0910002	7/16/2004	12	$2,810.79	n/a	Good	Active
121346	Lightning Master Corporation	D1056006	7/16/2004	12	$2,810.80	n/a	Good	Active
121347	Lightning Master Corporation	B0890005	7/16/2004	12	$2,810.80	101100942	Good	Active
121348	Lightning Master Corporation	D1012001	7/16/2004	12	$2,810.80	n/a	Good	Active
121816	R&P 1400AB	(AC-17)	11/10/2004	12	$17,460.00	140AB253220409	Good	Active
121817	R&P 1400AB	B0013011	11/10/2004	12	$17,460.00	140AB253230409	Good	Active
121818	R&P 1400AB	E0710005	11/10/2004	12	$17,460.00	140AB253240409	Good	Active
121819	R&P 1400A	F0850007	11/10/2004	12	$17,460.00	140AB253250409	Good	Active
121882	Chinook Engineering FTS	(Space Coast)	10/28/2004	12	$1,835.00	MRAS-1	Good	Active
121883	Chinook Engineering FTS	(MRAS Shop D101A)	10/28/2004	12	$1,835.00	MRAS-2	Good	Active
122188	NovaLynx 355-A10900	(Sun Coast)	8/23/2004	12	$1,404.69	995472-U1	Good	Active
122462	Opsis	(Weigh Lab Room B107)	5/25/2005	11	$12,070.00	604	Good	Active
123902	Opsis	(Weigh Lab Room B107)	5/25/2005	11	$4,216.00	n/a	Good	Active
124178	Wells Cargo TW122	(MRAS Shop Parking Lot)	5/16/2005	11	$9,534.25	1WC200E2353053636	Good	Active

124417	Met One Instruments 083D-1-35	(MRAS Shop D101B)	7/1/2005	11	$1,515.45	D7561	Good	Active
124758	Fluke 715/87V	(Nature Coast)	6/9/2005	11	$1,081.00	8881056	Good	Active
124759	Fluke 715/87V	(MRAS Shop D101)	6/9/2005	11	$1,081.00	8881048	Good	Active
124760	Fluke 715/87V	(MRAS Shop D101)	6/9/2005	11	$1,081.00	8881046	Good	Active
124761	Fluke 715/87V	(MRAS Shop D101A)	6/9/2005	11	$1,081.00	8881038	Good	Active
124762	Fluke 715/87V	(South District Office)	7/14/2005	11	$1,081.00	8881043	Good	Active
124763	Fluke 715/87V	(Southwest District Office)	7/14/2005	11	$1,081.00	8767140	Good	Active
124764	Fluke 715/87V	A0330004	7/14/2005	11	$1,081.00	8767074	Good	Active
124765	Fluke 715/87V	(Northeast District Office)	7/14/2005	11	$1,081.00	8767090	Good	Active
124766	Fluke 43B	(MRAS Shop D101)	6/9/2005	11	$1,977.45	DM8860166	Good	Active
125012	R&P 2025	(Orange County)	7/1/2005	11	$11,890.00	2025B 217930506	Good	Active
126972	AALBORG GFM-17	(Standards Lab Room B105)	2/27/2006	10	$1,192.25	154938-1	Good	Active
126973	AALBORG GFM-17	(LabA Cab1 Drawer3)	3/3/2006	10	$1,154.25	154938-2	Good	Active
127352	Aadco Zero Air Generator	(Standards Lab Room B105)	4/10/2006	10	$4,205.00	2878	Good	Active
127392	Fluke 8505A Multimeter	(Standards Lab Room B105)	4/10/2006	10	$15,532.00	908852245	Good	Active
127441	Aluma Tower	A0330018	4/3/2006	10	$2,235.00	n/a	Good	Active
127442	Aluma Tower T-135-35	F0850007	5/1/2006	10	$2,235.00	n/a	Good	Active
127465	Mykrolis FC-260V	(MRAS Shop D101A)	3/28/2006	10	$1,337.00	AA06103066	Good	Active
127530	Fluke 715/87V	(Central District Office)	5/3/2006	10	$1,295.05	9015198	Good	Active
127531	Fluke 715/87V	F0850007	5/3/2006	10	$1,295.05	9005307	Good	Active
127612	ESC 8832	(Broward County)	4/21/2006	10	$6,200.00	A1289	Good	Active
127613	ESC 8832	A0050006	4/21/2006	10	$6,200.00	A1288	Good	Active
127614	ESC 8832	E0550003	4/24/2006	10	$6,200.00	A1287	Good	Active
127615	ESC 8832	B0470015	4/21/2006	10	$6,790.00	A1286	Good	Active
128028	BK Precision 865	(MRAS Shop D101D)	5/25/2006	10	$1,090.00	113-01362	Good	Active
128367	Bios ML 800	(Standards Lab Room B105)	7/6/2006	10	$15,155.00	108053	Good	Active
128690	Hastings MASS FLOW CONTROLLER	(LabA Cab1 Drawer4)	7/13/2006	10	$1,375.00	3315400002	Good	Active
128691	Hastings MASS FLOW CONTROLLER	(LabA Cab1 Drawer4)	7/13/2006	10	$1,375.00	3315400081	Good	Active
128692	Hastings MASS FLOW CONTROLLER	(LabA Cab1 Drawer4)	7/13/2006	10	$1,375.00	3315400003	Good	Active
132187	R&P 1400AB	C0830003	5/15/2007	9	$24,964.00	140AB266790704	Good	Active
132281	Thermo Environmental Instruments, Inc 49iPS	G1290001	5/25/2007	9	$9,361.00	714922084	Good	Active
132282	Thermo Environmental Instruments, Inc 49i	C1171002	5/25/2007	9	$7,313.00	714922083	Good	Active
132487	R&P 1400AB	A1130015	5/8/2007	9	$19,224.00	140AB267260705	Good	Active
134321	ESC 8832	A0910002	1/3/2008	8	$6,020.00	A2187	Good	Active
134322	ESC 8832	B1071008	1/3/2008	8	$6,020.00	A2188	Good	Active
134323	ESC 8832	A0330018	1/3/2008	8	$6,020.00	A2326K	Good	Active
134548	R&P 1400AB	(MRAS Shop D101)	2/15/2008	8	$18,845.00	140AB270280801	Good	Active
135127	Fluke 715/87V	(MRAS Shop D101)	4/8/2008	8	$1,300.78	9612035	Good	Active
135128	Fluke 715/87V	(MRAS Shop D101D)	4/8/2008	8	$1,300.78	9612049	Good	Active
135129	Fluke 715/87V	E0210004	4/8/2008	8	$1,300.78	9612059	Good	Active
135238	Aluma Tower T-135-35	A0910002	4/22/2008	8	$2,367.50	AT-82070-T-4-1	Good	Active
135538	Wells Cargo EW2011	B0350004	5/28/2008	8	$14,597.00	1WC200J2383058622	Good	Active
135562	Wells Cargo EW2011	F0850007	5/28/2008	8	$14,597.00	1WC200J2583058623	Good	Active
136476	NovaLynx 355-A10900	(MRAS Shop D101A)	5/15/2015	1	$1,404.69	914761-J4	Good	Active
136477	NovaLynx 355-A10900		5/15/2015	1	$1,404.69	914762-J3	Good	Active
136478	NovaLynx 355-A10900	(Sun Coast)	5/15/2015	1	$1,404.69	914762-J4	Good	Active
137051	Thermo Environmental Instruments, Inc 49I-A1NAA	A0910002	7/9/2008	8	$7,533.50	820431148	Good	Active
137052	Thermo Environmental Instruments, Inc 49IPS-ANAA	(Standards Lab Room B105)	7/9/2008	8	$10,165.00	820430996	Good	Active
137565	Thermo Environmental Instruments, Inc 1405	G1290001	9/5/2008	8	$17,554.00	1405A126411212	Good	Active
138290	ESC 8832	C1272001	2/11/2009	7	$6,836.66	A3101K	Good	Active
138291	ESC 8832	(MRAS Shop D101)	2/11/2009	7	$6,836.67	A3102K	Good	Active
138292	ESC 8832	B0350004	3/11/2009	7	$6,836.67	A3103K	Good	Active
138593	Chinook Engineering Streamline Pro	(MRAS Shop D101A)	3/6/2009	7	$3,917.00	M081202	Good	Active
138594	Chinook Engineering Streamline Pro	(MRAS Shop D101A)	3/6/2009	7	$3,917.00	M081204	Good	Active
138595	Chinook Engineering Streamline Pro	(MRAS Shop D101A)	3/6/2009	7	$3,917.00	M080510	Good	Active
139025	Thermo Environmental Instruments, Inc 49i-PS-ANAA	A0050006	5/4/2009	7	$10,202.76	913235776	Good	Active
139174	Thermo Environmental Instruments, Inc 49i-A1NAA	A1130015	5/12/2009	7	$7,569.45	CM09130039	Good	Active
139697	Thermo Environmental Instruments, Inc 2025-AM	E0710005	6/29/2009	7	$15,161.19	2025B225330905	Good	Active
139698	Thermo Environmental Instruments, Inc 2025-AM	C0090007	6/29/2009	7	$15,161.19	2025B225320905	Good	Active
139699	Thermo Environmental Instruments, Inc 1405-AVF	A0590004	6/29/2009	7	$17,705.76	1405A204650904	Good	Active
139700	Thermo Environmental Instruments, Inc 1405-AVF	B0470015	6/29/2009	7	$17,705.77	1405A204780905	Good	Active
139701	Wells Cargo EW2011	E0713002	6/9/2009	7	$16,922.25	1WC200J2693059622	Good	Active
139702	Wells Cargo EW2011	D0170006	6/9/2009	7	$16,922.25	1WC200J2893059623	Good	Active
140120	Teledyne API 700E	(A137A)	10/15/2009	7	$16,958.96	703-S	Good	Active
140296	Thermo Environmental Instruments, Inc 2025B	E0710005	11/20/2009	7	$12,575.80	2025B225830910	Good	Active

140297	Thermo Environmental Instruments, Inc 2025B	B0010023	11/20/2009	7	$12,575.80	2025B225910911	Good	Active
140298	Thermo Environmental Instruments, Inc 2025B	C1171002	11/20/2009	7	$12,575.81	2025B225920912	Good	Active
140300	Thermo Environmental Instruments, Inc 2025B	B0010023	11/20/2009	7	$12,575.80	2025B225940912	Good	Active
140301	Thermo Environmental Instruments, Inc 49I-A1NAA	(A137A)	12/17/2009	6	$7,936.32	CM09500013	Good	Active
140302	Thermo Environmental Instruments, Inc 49I-A1NAA	G0730012	12/17/2009	6	$7,936.32	CM09500014	Good	Active
140303	Thermo Environmental Instruments, Inc 49I-A1NAA	A0050006	12/17/2009	6	$7,936.32	CM09500015	Good	Active
140304	Thermo Environmental Instruments, Inc 49I-A1NAA	A0590004	12/17/2009	6	$7,936.32	CM09500016	Good	Active
140305	Thermo Environmental Instruments, Inc 49I-A1NAA	(MRAS Shop D101)	12/17/2009	6	$7,936.33	CM09500017	Good	Active
140306	Thermo Environmental Instruments, Inc 49IPS-ANAA	A1130015	12/17/2009	6	$9,808.00	935239567	Good	Active
140308	Thermo Environmental Instruments, Inc 49IPS-ANAA	G0730012	12/17/2009	6	$9,808.00	935239569	Good	Active
140309	Thermo Environmental Instruments, Inc 49IPS-ANAA	D1012001	12/17/2009	6	$9,808.00	935239570	Good	Active
140310	Thermo Environmental Instruments, Inc 49IPS-ANAA	(MRAS Shop D101)	12/17/2009	6	$9,808.01	935239571	Good	Active
140617	Teledyne API 700E	B0470015	6/16/2010	6	$15,103.00	898-S	Good	Active
140619	Teledyne API 700E	(Standards Lab Room B105)	6/16/2010	6	$15,103.00	897-S	Good	Active
140620	Teledyne API 700E	(Standards Lab Room B105)	6/16/2010	6	$15,103.00	895-S	Good	Active
140621	Teledyne API 700E	D1056005	6/16/2010	6	$15,103.00	899-S	Good	Active
140622	Teledyne API 700E	(Standards Lab Room B105)	6/16/2010	6	$15,103.00	900-S	Good	Active
140661	ESC 8832	B0890005	6/22/2010	6	$9,017.50	A3730K	Good	Active
140662	ESC 8832	(MRAS Shop D101)	6/22/2010	6	$9,017.50	A3731K	Good	Active
140930	Vaisala WXT520	(MRAS Shop D101)	6/30/2010	6	$1,767.75	F2620012	Good	Active
141098	Bios Definer Model 220 - M	(MRAS Shop D101)	9/22/2010	6	$1,890.00	120467	Good	Active
141108	Bios Definer Model 220 - M	(A137A)	9/22/2010	6	$1,890.00	120469	Good	Active
141109	Bios Definer Model 220 - M	E0210004	9/22/2010	6	$1,890.00	120460	Good	Active
141110	Bios Definer Model 220 - M	(Northwest District Office)	9/22/2010	6	$1,890.00	120461	Good	Active
141111	Bios Definer Model 220 - M	(South District Office)	9/22/2010	6	$1,890.00	120827	Good	Active
141112	Bios Definer Model 220 - M	(Standards Lab Room B105 Cab A)	9/22/2010	6	$1,890.00	120463	Good	Active
141113	Bios Definer Model 220 - M	(Northwest District Office)	9/22/2010	6	$1,890.00	120466	Good	Active
141114	Bios Definer Model 220 - M	(Southwest District Office)	9/22/2010	6	$1,890.00	120470	Good	Active
141118	Bios Definer Model 220 - M	(Southeast District Office)	9/22/2010	6	$1,890.00	120826	Good	Active
141119	Bios Definer Model 220 - M	(Nature Coast)	11/17/2010	6	$1,890.00	120464	Good	Active
141120	Bios Definer Model 220 - M	(Central District Office)	11/17/2010	6	$1,890.00	120462	Good	Active
141121	Bios Definer Model 220 - M	(Nature Coast)	11/17/2010	6	$1,890.00	120468	Good	Active
141122	Bios Definer Model 220 - M	(Central District Office)	11/17/2010	6	$1,890.00	120465	Good	Active
141123	Bios Definer Model 220 - M	(MRAS Shop D101A)	11/17/2010	6	$1,890.00	120459	Good	Active
141125	Bios Definer Model 220 - H	(First Coast)	11/17/2010	6	$1,890.00	120540	Good	Active
141126	Bios Definer Model 220 - H	E0210004	11/17/2010	6	$1,890.00	120544	Good	Active
141130	Bios Definer Model 220 - H	(Northwest District Office)	11/17/2010	6	$1,890.00	120537	Good	Active
141131	Bios Definer Model 220 - H	(South District Office)	11/17/2010	6	$1,890.99	120787	Good	Active
141132	Bios Definer Model 220 - H	(Standards Lab Room B105 Cab A)	11/17/2010	6	$1,890.99	120788	Good	Active
141133	Bios Definer Model 220 - H	(Northwest District Office)	11/17/2010	6	$1,890.99	120640	Good	Active
141134	Bios Definer Model 220 - H	(Southwest District Office)	11/17/2010	6	$1,890.99	120541	Good	Active
141135	Bios Definer Model 220 - H	(Southeast District Office)	11/17/2010	6	$1,890.99	120539	Good	Active
141138	Bios Definer Model 220 - H	(Nature Coast)	11/17/2010	6	$1,890.99	120786	Good	Active
141139	Bios Definer Model 220 - H	(Space Coast)	11/17/2010	6	$1,890.99	120538	Good	Active
141140	Bios Definer Model 220 - H	(MRAS Shop D101A)	11/17/2010	6	$1,890.99	120542	Good	Active
141343	Dell Optiplex 780	F1110013	12/6/2010	5	$621.90		Good	Active
141345	Dell Optiplex 780	A0590004	12/6/2010	5	$621.90	HW955P1	Good	Active
141346	Dell Optiplex 780	A0330018	12/6/2010	5	$621.90	GP955P1	Good	Active
141347	Dell Optiplex 780	(MRAS Shop D101)	12/6/2010	5	$621.90	1S955P1	Good	Active
141348	Dell Optiplex 780	C0690002	12/6/2010	5	$621.90	FP955P1	Good	Active
141349	Dell Optiplex 780	D1056005	12/6/2010	5	$621.90	2X955P1	Good	Active
141350	Dell Optiplex 780	C0972002	12/6/2010	5	$621.90	8YQ74P1	Good	Active
141351	Dell Optiplex 780	E0712002	12/6/2010	5	$621.90	J8Y74P1	Good	Active
141352	Dell Optiplex 780	D1012001	12/6/2010	5	$621.90	8X955P1	Good	Active
141353	Dell Optiplex 780	D0810028	12/6/2010	5	$621.90	C9Y74P1	Good	Active
141354	Dell Optiplex 780	E0710005	12/6/2010	5	$621.90	9YQ74P1	Good	Active
141355	Dell Optiplex 780	(MRAS Shop D101)	12/6/2010	5	$621.90	CQ955P1	Good	Active
141356	Dell Optiplex 780	B0890010	12/6/2010	5	$621.90	1Q955P1	Good	Active
141357	Dell Optiplex 780	B0013011	12/6/2010	5	$621.90	JP955P1	Good	Active
141358	Dell Optiplex 780	F0850007	12/6/2010	5	$621.90	4YQ74P1	Good	Active
141359	Dell Optiplex 780	A0050006	12/6/2010	5	$621.90	3BYS3P1	Good	Active
141360	Dell Optiplex 780	E0713002	12/6/2010	5	$621.90	G6X74P1	Good	Active
141361	Dell Optiplex 780	B1071008	12/6/2010	5	$621.90		Good	Active

141362	Dell Optiplex 780	E0550003	12/6/2010	5	$621.90		Good	Active
141363	Dell Optiplex 780	C1272001	12/6/2010	5	$621.90	7Q955P1	Good	Active
141364	Dell Optiplex 780	(A137H)	12/6/2010	5	$621.90	29Y74P1	Good	Active
141365	Dell Optiplex 780	D1010005	12/6/2010	5	$621.90	5BYS3P1	Good	Active
141367	Dell Optiplex 780	(A137H)	12/6/2010	5	$621.90	J7Y74P1	Good	Active
141368	Dell Optiplex 780	D0170006	12/6/2010	5	$621.90	19Y74P1	Good	Active
141369	Dell Optiplex 780	A0330004	12/6/2010	5	$621.90	BR955P1	Good	Active
141370	Dell Optiplex 780	C1275002	12/6/2010	5	$621.90	H7Y74P1	Good	Active
141371	Dell Optiplex 780	C0090007	12/6/2010	5	$621.90	D5X74P1	Good	Active
141373	Dell Optiplex 780	A1130015	12/6/2010	5	$621.90	BQ955P1	Good	Active
141374	Dell Optiplex 780	C0094001	12/6/2010	5	$621.90		Good	Active
141375	Dell Optiplex 780	(AC-14)	12/6/2010	5	$621.90	JX974P1	Good	Active
141376	Dell Optiplex 780	B0890005	12/6/2010	5	$621.90	D9Y74P1	Good	Active
141377	Dell Optiplex 780	B0350004	12/6/2010	5	$621.90	6XQ74P1	Good	Active
141378	Dell Optiplex 780	A0910002	12/6/2010	5	$621.90	B5X74P1	Good	Active
141379	Dell Optiplex 780	E0210004	12/6/2010	5	$621.90	CP955P1	Good	Active
141380	Dell Optiplex 780	D1056006	12/6/2010	5	$621.90	7XQ74P1	Good	Active
141381	Dell Optiplex 780	B0030002	12/6/2010	5	$621.90	1ZQ74P1	Good	Active
141382	Dell Optiplex 780	C0830004	12/6/2010	5	$621.90	GR955P1	Good	Active
141383	Dell Optiplex 780	C0830003	12/6/2010	5	$621.90	F9Y74P1	Good	Active
141385	Dell Optiplex 780	B0230002	12/6/2010	5	$621.90	88Y74P1	Good	Active
141386	Dell Optiplex 780	(AC-17 Shelf A)	12/6/2010	5	$621.90	16X74P1	Good	Active
142160	Teledyne API T400	L0860019	1/21/2011	5	$7,819.25	83	Good	Active
142161	Teledyne API T400	L1030004	1/21/2011	5	$7,819.25	84	Good	Active
142162	Teledyne API T400	L1030004	1/21/2011	5	$7,819.25	85	Good	Active
142163	Teledyne API T400	L0860019	1/21/2011	5	$7,819.25	86	Good	Active
142165	Teledyne API M701 Opt 86E	(A137A)	1/10/2011	5	$4,057.13	3412	Good	Active
142166	Teledyne API M701 Opt 86E	B1071008	1/10/2011	5	$4,057.13	3413	Good	Active
142167	Teledyne API M701 Opt 86E	A1130015	1/10/2011	5	$4,057.13	3414	Good	Active
142168	Teledyne API M701 Opt 86E	D0810028	1/10/2011	5	$4,057.13	3415	Good	Active
142169	Teledyne API M701 Opt 86E	(A137A)	1/10/2011	5	$4,057.13	3416	Good	Active
142170	Teledyne API M701 Opt 86E	D0170006	1/10/2011	5	$4,057.13	3418	Good	Active
142171	Teledyne API M701 Opt 86E	B0890005	1/10/2011	5	$4,057.13	3419	Good	Active
142172	Teledyne API M701 Opt 86E	(A137A)	1/10/2011	5	$4,057.13	3420	Good	Active
142173	Teledyne API M701 Opt 86E	D1056005	1/10/2011	5	$4,057.13	3421	Good	Active
142174	Teledyne API M701 Opt 86E	(MRAS Shop D101)	1/10/2011	5	$4,057.13	3422	Good	Active
142178	Vaisala WXT520	A0330004	1/26/2011	5	$2,370.00	G0350001	Good	Active
142179	Vaisala WXT520	B0030002	1/31/2011	5	$2,370.00	G0350002	Good	Active
142181	Vaisala WXT520	C0830003	1/31/2011	5	$2,370.00	G0350004	Good	Active
142182	Vaisala WXT520	A1130015	1/31/2011	5	$2,370.00	G0350005	Good	Active
142183	Vaisala WXT520	B0350004	1/31/2011	5	$2,370.00	G0350006	Good	Active
142184	Vaisala WXT520	A0330018	1/31/2011	5	$2,370.00	G0350007	Good	Active
142185	Vaisala WXT520	B0470015	1/31/2011	5	$2,370.00	G0350008	Good	Active
142186	Vaisala WXT520	(MRAS Shop D101)	1/31/2011	5	$2,370.00	G0350009	Good	Active
142187	Vaisala WXT520	(MRAS Shop D101)	1/31/2011	5	$2,370.00	G0350010	Good	Active
142188	Vaisala WXT520	(MRAS Shop D101)	1/31/2011	5	$2,370.00	G0350011	Good	Active
142189	Vaisala WXT520	F1110013	1/31/2011	5	$2,370.00	G0350012	Good	Active
142190	Vaisala WXT520	A1130015	1/31/2011	5	$2,370.00	G0350013	Good	Active
142191	Vaisala WXT520	A0050006	1/31/2011	5	$2,370.00	G0350014	Good	Active
142192	Vaisala WXT520	(MRAS Shop D101)	1/31/2011	5	$2,370.00	G0350015	Good	Active
142204	Teledyne API T703	L1030004	2/4/2011	5	$9,757.51	58	Good	Active
142206	Teledyne API T703	L0860019	2/4/2011	5	$9,757.51	60	Good	Active
142207	Teledyne API T703	L1030004	2/4/2011	5	$9,757.51	61	Good	Active
142256	Thermo Environmental Instruments, Inc 2025B	Y0170005	3/23/2011	5	$13,611.45	2025B227811103	Good	Active
142312	Teledyne API T100	L0118002	5/2/2011	5	$10,211.35	114	Good	Active
143498	Vaisala WXT520	C0972002	9/2/2011	5	$2,250.00	G3420030	Good	Active
143499	Vaisala WXT520	G0730012	9/2/2011	5	$2,250.00	G3420033	Good	Active
143500	Vaisala WXT520	A1130015	9/2/2011	5	$2,250.00	G3420031	Good	Active
143501	Vaisala WXT520	D1012001	9/2/2011	5	$2,250.00	G3420027	Good	Active
143502	Vaisala WXT520	A0910002	9/2/2011	5	$2,250.00	G3420022	Good	Active
143503	Vaisala WXT520	A0050006	9/2/2011	5	$2,250.00	G3420021	Good	Active
143504	Vaisala WXT520	D1056006	9/2/2011	5	$2,250.00	G3420026	Good	Active
143505	Vaisala WXT520	C1171002	9/2/2011	5	$2,250.00	G3420029	Good	Active
143506	Vaisala WXT520	F0850007	9/2/2011	5	$2,250.00	G3420035	Good	Active
143507	Vaisala WXT520	C1275002	9/2/2011	5	$2,250.00	G3420028	Good	Active
143508	Vaisala WXT520	C1272001	9/2/2011	5	$2,250.00	G3420032	Good	Active
143509	Vaisala WXT520	C0094001	9/2/2011	5	$2,250.00	G3420024	Good	Active
143510	Vaisala WXT520	G1290001	9/2/2011	5	$2,250.00	G3420014	Good	Active
143511	Vaisala WXT520	E0210004	9/2/2011	5	$2,250.00	G3420015	Good	Active
143512	Vaisala WXT520	E0550003	9/2/2011	5	$2,250.00	G3420025	Good	Active
143513	Vaisala WXT520	E0712002	9/2/2011	5	$2,250.00	G3420034	Good	Active
143514	Vaisala WXT520	D0170006	9/2/2011	5	$2,250.00	G3420012	Good	Active
143515	Vaisala WXT520	E0713002	9/2/2011	5	$2,250.00	G3420011	Good	Active
143516	Vaisala WXT520	C0090007	9/2/2011	5	$2,250.00	G3420013	Good	Active
143517	Vaisala WXT520	B0013011	9/2/2011	5	$2,250.00	G3420017	Good	Active
143518	Vaisala WXT520	C0830004	9/2/2011	5	$2,250.00	G3420016	Good	Active
143519	Vaisala WXT520	B0230002	9/2/2011	5	$2,250.00	G3420018	Good	Active

143520	Vaisala WXT520	B0013011	9/2/2011	5	$2,250.00	G3420020	Good	Active
143521	Vaisala WXT520	C0690002	9/2/2011	5	$2,250.00	G3420019	Good	Active
143522	Vaisala WXT520	D1010005	9/2/2011	5	$2,250.00	G3420023	Good	Active
145217	Thermo Environmental Instruments, Inc 49i	C0972002	9/5/2012	4	$8,441.78	1227254943	Good	Active
145218	Thermo Environmental Instruments, Inc 49i	C0690002	9/5/2012	4	$8,441.78	1227254945	Good	Active
145219	Thermo Environmental Instruments, Inc 49i	(MRAS Shop D101)	9/5/2012	4	$8,441.78	1227254948	Good	Active
145220	Thermo Environmental Instruments, Inc 49i	C0830003	9/5/2012	4	$8,441.78	1227254942	Good	Active
145221	Thermo Environmental Instruments, Inc 49i	D1012001	9/5/2012	4	$8,441.78	1227254944	Good	Active
145222	Thermo Environmental Instruments, Inc 49i	A0330018	9/5/2012	4	$8,441.78	1227254950	Good	Active
145223	Thermo Environmental Instruments, Inc 49i	C1272001	9/5/2012	4	$8,441.78	1227254946	Good	Active
145225	Thermo Environmental Instruments, Inc 49iPS	A0330018	9/5/2012	4	$11,487.49	1227254881	Good	Active
145226	Thermo Environmental Instruments, Inc 49iPS	E0210004	9/5/2012	4	$11,487.49	1227254880	Good	Active
145227	Thermo Environmental Instruments, Inc 49iPS	C1272001	9/5/2012	4	$11,487.49	1227254882	Good	Active
145228	Thermo Environmental Instruments, Inc 49iPS	A0330004	9/5/2012	4	$11,487.49	1227254878	Good	Active
145229	Thermo Environmental Instruments, Inc 49iPS	(A137A)	9/5/2012	4	$11,487.49	1227254879	Good	Active
145230	Thermo Environmental Instruments, Inc 43i	B1071008	9/5/2012	4	$11,213.28	1227254884	Good	Active
145231	Thermo Environmental Instruments, Inc 43i	B0890005	9/5/2012	4	$11,213.28	1227254883	Good	Active
145265	Thermo Environmental Instruments, Inc 1405	A0910002	12/13/2010	5	$18,374.00	1405A212581101	Good	Active
145266	Thermo Environmental Instruments, Inc 1405-AVF	B0890010	12/21/2012	3	$17,705.77	1405A213561102	Good	Active
145510	Thermo Fisher Scientific 43I So2 Analyzer	A0330004	2/19/2013	3	$11,497.28	1308857348	Good	Active
145511	Thermo Fisher Scientific 43I So2 Analyzer	D0170006	2/19/2013	3	$11,497.28	1308857349	Good	Active
145512	Thermo Fisher Scientific 43I So2 Analyzer	D0810028	2/1/2013	3	$11,497.28	1308857350	Good	Active
146565	Thermo Fisher Scientific 49i	C1275002	6/7/2013	3	$8,657.24	1317958398	Good	Active
146566	Thermo Fisher Scientific 49i	D1056005	6/7/2013	3	$8,657.24	1317958399	Good	Active
146567	Thermo Fisher Scientific 49i	C0090007	6/7/2013	3	$8,657.24	1317958400	Good	Active
146568	Thermo Fisher Scientific 49iPS	C0094001	6/7/2013	3	$11,771.49	1317958401	Good	Active
146569	Thermo Fisher Scientific 49iPS	C0090007	6/7/2013	3	$11,771.49	1317958402	Good	Active
146570	Thermo Fisher Scientific 49iPS	D1056005	6/7/2013	3	$11,771.49	1317958403	Good	Active
146571	Thermo Fisher Scientific 49iPS	(Standards Lab Room B105 Cab A)	6/7/2013	3	$11,771.49	1317958404	Good	Active
146572	Thermo Fisher Scientific 1405	G0730012	6/7/2013	3	$16,883.57	1405A223811303	Good	Active
146573	Thermo Fisher Scientific 43i	(A137A)	6/7/2013	3	$11,486.40	JC1306300719	Good	Active
146574	Thermo Fisher Scientific 43i	D1056005	6/7/2013	3	$11,486.40	JC1307000751	Good	Active
147046	Thermo Fisher Scientific 49I-A1NNA	C0830004	9/30/2013	3	$7,917.81	1331659576	Good	Active
147047	Thermo Fisher Scientific 49I-A1NNA	B0230002	9/30/2013	3	$7,917.81	1331659580	Good	Active
147048	Thermo Environmental Instruments, Inc 49I-A1NNA	B0350004	9/30/2013	3	$7,917.81	1331659608	Good	Active
147049	Thermo Fisher Scientific 49I-A1NNA	E0210004	9/30/2013	3	$7,917.81	1331659573	Good	Active
147051	Thermo Fisher Scientific 49I-A1NNA	B0030002	9/30/2013	3	$7,917.81	1331659578	Good	Active
147052	Thermo Fisher Scientific 49I-A1NNA	D1010005	9/30/2013	3	$7,917.81	1331659538	Good	Active
147053	Thermo Fisher Scientific 49I-A1NNA	E0550003	9/30/2013	3	$7,917.81	1331659581	Good	Active
147054	Thermo Fisher Scientific 49I-A1NNA	E0713002	9/30/2013	3	$7,917.81	1331659575	Good	Active
147055	Thermo Fisher Scientific 49I-A1NNA	F1110013	9/30/2013	3	$7,917.81	1331659609	Good	Active
147056	Thermo Fisher Scientific 49I-A1NNA	B0013011	9/30/2013	3	$7,917.81	1331659579	Good	Active
147057	Thermo Fisher Scientific 49I-A1NNA	A0330004	9/30/2013	3	$7,917.81	1331659577	Good	Active
147058	Thermo Fisher Scientific 49I-A1NNA	D1056006	9/30/2013	3	$7,917.81	1331659574	Good	Active
147059	Thermo Fisher Scientific 49I-A1NNA	E0712002	9/30/2013	3	$7,917.81	1331659610	Good	Active
147060	Thermo Environmental Instruments, Inc 49IPS-ANNA	C0830003	9/30/2013	3	$10,766.07	1331659541	Good	Active
147061	Thermo Environmental Instruments, Inc 49IPS-ANNA	C0972002	9/30/2013	3	$10,766.07	1331659643	Good	Active
147062	Thermo Environmental Instruments, Inc 49IPS-ANNA	C0690002	9/30/2013	3	$10,766.07	1331659645	Good	Active
147063	Thermo Environmental Instruments, Inc 49IPS-ANNA	C1171002	9/30/2013	3	$10,766.07	1331659614	Good	Active
147064	Thermo Environmental Instruments, Inc 49IPS-ANNA	C0830004	9/30/2013	3	$10,766.07	1331659584	Good	Active
147065	Thermo Environmental Instruments, Inc 49IPS-ANNA	E0713002	9/30/2013	3	$10,766.07	1331659585	Good	Active
147066	Thermo Environmental Instruments, Inc 49IPS-ANNA	B0030002	9/30/2013	3	$10,766.07	1331659540	Good	Active
147068	Thermo Environmental Instruments, Inc 49IPS-ANNA	A0590004	9/30/2013	3	$10,766.07	1331659611	Good	Active
147069	Thermo Environmental Instruments, Inc 49IPS-ANNA	B0350004	9/30/2013	3	$10,766.07	1331659628	Good	Active

147070	Thermo Fisher Scientific 49IPS-ANNA	E0550003	9/30/2013	3	$10,766.07	1331659629	Good	Active
147071	Thermo Environmental Instruments, Inc 49IPS-ANNA	C1275002	9/30/2013	3	$10,766.07	1331659630	Good	Active
147072	Thermo Environmental Instruments, Inc 49IPS-ANNA	D1010005	9/30/2013	3	$10,766.07	1331659583	Good	Active
147074	Thermo Fisher Scientific 49IPS-ANNA	F1110013	9/30/2013	3	$10,766.07	1331659642	Good	Active
147075	Thermo Environmental Instruments, Inc 49IPS-ANNA	B0230002	9/30/2013	3	$10,766.07	1331659612	Good	Active
147076	Thermo Environmental Instruments, Inc 49IPS-ANNA	(A137A)	9/30/2013	3	$10,766.07	1331659644	Good	Active
147077	Thermo Fisher Scientific 49IPS-ANNA	D1056006	9/30/2013	3	$10,766.07	1331659613	Good	Active
147078	Thermo Environmental Instruments, Inc 49IPS-ANNA	A0910002	9/30/2013	3	$10,766.07	1331659543	Good	Active
147079	Thermo Environmental Instruments, Inc 49IPS-ANNA	F0850007	9/30/2013	3	$10,766.07	1331659542	Good	Active
147080	Teledyne API T700	(MRAS Shop D101)	12/23/2013	2	$15,313.43	1038	Good	Active
147081	Teledyne API T700	D0170006	12/23/2013	2	$15,313.43	1039	Good	Active
147082	Teledyne API T700	D0810028	12/23/2013	2	$15,313.43	1040	Good	Active
147571	ESC 8832	F0850007	2/26/2014	2	$7,600.00	A4790K	Good	Active
147572	ESC 8832	(Broward County)	2/21/2014	2	$7,600.00	A4773K	Good	Active
147891	NovaLynx M202-A10038	(Lee Island Coast)	4/10/2014	2	$1,452.85	1238000148	Good	Active
148145	Thermo Fisher Scientific 1405	(A137A)	6/5/2014	2	$17,138.19	1405A228401405	Good	Active
148239	Thermo Fisher Scientific 49I	G1290001	5/27/2014	2	$8,960.83	1417862270	Good	Active
148240	Thermo Fisher Scientific 49I	C0094001	5/27/2014	2	$8,960.83	1417862271	Good	Active
148242	Thermo Fisher Scientific 49I-PS	(MRAS Shop D101D)	5/27/2014	2	$12,231.77	1417862273	Good	Active
148243	Thermo Fisher Scientific 49I-PS	E0712002	5/27/2014	2	$12,231.77	1417862274	Good	Active
148411	Williams Scotsman ACC-16000		8/8/2014	2	$34,799.00	B043MODB25	Good	Active
148419	NovaLynx M202-A10038	(Space Coast)	8/22/2014	2	$1,435.00	1429000088	Good	Active
148420	NovaLynx M202-A10038	(Nature Coast)	8/5/2014	2	$1,435.00	1429000089	Good	Active
148421	NovaLynx M202-A10038	(Space Coast)	8/5/2014	2	$1,435.00	1429000090	Good	Active
149023	Agilaire LLC 8872	G0730012	2/2/2015	1	$6,180.00	381	Good	Active
149365	Thermo Fisher Scientific 2025i-AN	G0730012	2/2/2015	1	$0.00	2025iW 20723 1412	Good	Active
149366	Thermo Fisher Scientific 2025i-AN	A0330004	2/2/2015	1	$0.00	2025iW 20720 1412	Good	Active
149367	Thermo Fisher Scientific 2025i-AN	A0330004	2/3/2015	1	$0.00	2025iW 20724 1412	Good	Active
149368	Thermo Fisher Scientific 2025i-AN	G0730012	2/3/2015	1	$0.00	2025iW 20721 1412	Good	Active
149369	Thermo Fisher Scientific 2025i-AN	C1275002	2/3/2015	1	$0.00	2025iW 20731 1501	Good	Active
149468	Teledyne API T700U	G1290001	5/20/2015	1	$21,510.90	242	Good	Active
149485	Agilaire LLC 8872	B0230002	6/16/2015	1	$6,950.00	458	Good	Active
149489	Agilaire LLC 8872	(MRAS Shop D101)	6/16/2015	1	$6,950.00	462	Good	Active
149558	Teledyne API T750U		7/15/2015	1	$21,387.90	56	Good	Active
149559	Teledyne API T750U		7/15/2015	1	$23,387.90	57	Good	Active
149560	Teledyne API T750U		7/15/2015	1	$23,387.90	58	Good	Active
149631	Agilaire LLC 8872	(MRAS Shop D101B)	9/14/2015	1	$6,950.00	489	Good	Active
149905	Teledyne API M602B	G0730012	11/16/2015	1	$0.00	SN 183	Good	Active
149906	Teledyne API M602B	C1171002	11/16/2015	1	$0.00	SN 184	Good	Active
149978	Thermo Environmental Instruments, Inc 1405		10/12/2015	1	$16,881.22	1405A232741510	Good	Active
149979	Thermo Environmental Instruments, Inc 1405	B0230002	10/12/2015	1	$16,881.22	1405A232961511	Good	Active
149981	Thermo Environmental Instruments, Inc 1405	D0170006	10/12/2015	1	$16,881.22	1405A232951511	Good	Active
150107	Teledyne API T700	A0330004	1/19/2016	0	$0.00	2328	Good	Active
108916-109177	BGI Incorporated TriCal	(MRAS Shop D101A)	12/12/2002	13	$2,028.00	65	Good	Active
BL605005	Wells Cargo EW2011	C0972002	5/2/2000	16	$10,188.00	1WC200J19Y3043548	Good	Active
BL605007	Wells Cargo EW2011	E0210004	5/15/2000	16	$10,188.00	1WC200J17Y3043550	Good	Active
BL605008	Wells Cargo	B0230002	7/10/2000	16	$10,188.00	1WC200J10Y3043552	Good	Active
BL605009	Wells Cargo	C0690002	5/15/2000	16	$10,188.00	1WC200J13Y3043445	Good	Active
BL605010	Wells Cargo EW2011	A0910002	5/2/2000	16	$10,188.00	1WC200J19Y3043551	Good	Active
BL605011	Wells Cargo	A0050006	5/2/2000	16	$10,188.00	1WC200J14Y3043554	Good	Active
BL605012	Wells Cargo EW2011	D1010005	4/17/2000	16	$10,188.00	1WC200J10Y3043549	Good	Active
BL605013	Wells Cargo EW2011	A1130015	6/12/2000	16	$10,188.00	NEED VIN #	Good	Active
BL605014	Wells Cargo	E0550003	6/26/2000	16	$10,188.00		Good	Active
BL605015	Wells Cargo EW2011	G0730013	7/10/2000	16	$10,188.00	1WC200J18Y3043556	Good	Active
BL605016	Wells Cargo	C0830004	7/31/2000	16	$10,188.00	4913	Good	Active
BL605017	Wells Cargo EW2011	C0090011	10/2/2000	16	$10,188.00	1WC200J16Y3043555	Good	Active
BL605019	Wells Cargo	B1071008	10/4/2000	16	$9,094.00	1WC200J19S3043730	Good	Active
EP003904	Ford Expedition	(Emerald Coast)	5/28/1997	19	$25,483.00	1FMEU17L2VLB74797	Good	Active
EP004535	Ford Expedition	(OAM QA Bruce Ferrier)	5/3/1999	17	$24,819.00	1FMRU17L3XLB52263	Good	Active
EP005160	Dodge 2500	(MRAS Shop D101)	4/30/2001	15	$20,198.00	1B7KC23W71J589281	Good	Active
EP005526	Ford Explorer	(Nature Coast)	11/20/2014	2	$0.00	1FMZU72K73ZB13989	Good	Active
EP005552	Ford Expedition	(OAM QA Mary Clark)	6/30/2006	10	$23,303.15	1FMPU15586LA93463	Good	Active
EP006102	Ford Escape	(Naval Aviation Coast)	11/20/2014	2	$0.00	1FMCU96HX5KD4537	Good	Active
EP006105	Toyota Prius	(Space Coast)			$0.00	JTDKB20U953054887	Good	Active
EP006108	Ford Van	(MRAS Shop D101)	5/18/2005	11	$16,887.00	1FTNE24W16HA07776	Good	Active
EP006456	Ford Escape	(Lee Island Coast)	11/20/2014	2	$0.00	1FMCU95HX6KD36896	Good	Active
EP006700	Ford Escape	(First Coast)	11/20/2014	2	$0.00	1FMCU49H18KA29634	Good	Active
EP006874	Ford Escape	(Space Coast)	11/20/2014	2	$0.00	1FMCU59HX8KA49919	Good	Active
EP007185	Chevrolet Tahoe	(BMC Fenced Lot)	11/20/2014	2	$0.00	1GNFC13098R265646	Good	Active

EPA Supplied	R&P Partisol 2025	L0952002	7/1/1998	18	$0.00	2025A202709805	Good	Active
EPA Supplied	R&P Partisol 2025	D1056006	7/1/1998	18	$0.00	2025A203949806	Good	Active
EPA Supplied	R&P Partisol 2025	(AC-16 Shelf A)	7/1/1998	18	$0.00	2025A202699805	Good	Active
EPA Supplied	Teledyne API T700U	(Standards Lab Room B105)	6/27/2014	2	$0.00	203	Good	Active
EPA Supplied	RADNET - HVP - 4004BRL - S	G0730012	7/29/2009	7	$0.00	18603	Good	Active
EPA Supplied	BGI Incorporated	(MRAS Shop D101)	7/29/2009	7	$0.00	620	Good	Active
EPA Supplied	Met One Instruments	G0730012	1/1/2003	13	$0.00	A2592	Good	Active
EPA Supplied	R&P Partisol 2025	D1056006	9/1/1998	18	$0.00	2025A205639807	Good	Active
EPA supplied	URG - 3000	G0730012	7/29/2009	7	$0.00	3N-B0724	Good	Active
ER015197	Locally Made	(BMC Parking Lot)	6/30/1980	36	$2,000.00	T# DNR-2096	Good	Active
ER031217	Wells Cargo	D1056005	1/31/1992	24	$8,991.03	1WC200J12N3022729	Good	Active
ERO17411	Hastings Mass Flow Meter	(Standards Lab Room B105)	5/31/1983	33	$1,281.35	0-13344	Good	Active
ERO20029	Dasibi 1009	(OAM QA Room B105)			$6,900.00	133	Good	Active
ERO27867	Sencore LC-77	(AC-14 Shelf B)	12/15/1988	27	$1,604.96	6037469-R15	Good	Active
ERO28016	Dasibi 5009	(A137I)	5/1/1989	27	$9,000.00	254	Good	Active
ERO30020	Hewlett Packard 6114A	(AC-14 Shelf A)	5/7/1991	25	$2,250.00	3104AU6244	Good	Active
ERO30043	Dasibi 5008	(OAM QA Room B105)	6/10/1991	25	$11,725.00	62	Good	Active
ERO31035	Aluma Tower T-135	E0210004	11/21/1991	25	$1,148.00	n/a	Good	Active
ERO31406	AIR AIR-HB-1A	(MRAS Shop D101D)	1/1/1992	24	$700.00	2D2049	Good	Active
ERO31778	UNGAR	(MRAS Shop D101B)	5/27/1992	24	$1,161.93	n/a	Good	Active
ERO32844		(Standards Lab Room B105 Cab C)			$1,723.46	13142/18003	Good	Active
Forest Service	Thermo Environmental Instruments, Inc 1400ab	B1071008	2/3/2009	7	$0.00	140AB273530810	Good	Active
Not Required	Vaisala WSP150	D1056006	1/31/2011	5	$268.00	F5030016	Good	Active
Not Required	Vaisala WSP150	C0830003	1/31/2011	5	$268.00	F5030001	Good	Active
Not Required	Vaisala WSP150	F1110013	1/31/2011	5	$268.00	F5030012	Good	Active
Not Required	Vaisala WSP150	(Weigh Lab Room B107)	1/31/2011	5	$268.00	F5030022	Good	Active
Not Required	Vaisala WSP150	B0350004	1/31/2011	5	$268.00	F5030003	Good	Active
Not Required	Vaisala WSP150	G0730012	1/31/2011	5	$268.00	F5030008	Good	Active
Not Required	Vaisala WSP150	B0030002	1/31/2011	5	$268.00	F5030021	Good	Active
Not Required	Vaisala WSP150	(MRAS Shop D101)	1/31/2011	5	$268.00	F5030011	Good	Active
Not Required	Vaisala WSP150	(MRAS Shop D101)	1/31/2011	5	$268.00	F5030023	Good	Active
Not Required	Vaisala WSP150	A0330004	1/31/2011	5	$268.00	F5030025	Good	Active
Not Required	Vaisala WSP150	(Weigh Lab Room B107)	1/31/2011	5	$268.00	F5030019	Good	Active
Not Required	Vaisala WSP150	A0330018	1/31/2011	5	$268.00	F5030024	Good	Active
Not Required	Vaisala WSP150	B0470015	1/31/2011	5	$268.00	F5030014	Good	Active
Not Required	Vaisala WSP150	(MRAS Shop D101)	1/31/2011	5	$268.00	F5030013	Good	Active
106671	R&P 1400AB	(MRAS Shop D101)	1/13/2000	16	$11,124.34	140AB227829911	Fair	Awaiting Maintenance
142180	Vaisala WXT520	(MRAS Shop D101B)	1/31/2011	5	$2,370.00	G0350003	Fair	Awaiting Maintenance
149827	Thermo Environmental Instruments, Inc 43I So2 Analyzer		11/9/2015	1	$11,497.28	JC 1526101643	Fair	Awaiting Maintenance
150106	T700	B1071008	1/19/2016	0	$0.00	2329	Fair	Awaiting Maintenance
109220	R&P 1400AB	(AC-17)	3/20/2001	15	$16,975.00	140AB233280011	Fair	Awaiting Parts
140307	Thermo Environmental Instruments, Inc 49IPS-ANAA	(AC-15)	2/3/2010	6	$9,808.00	935239568	Fair	Awaiting Parts
140618	Teledyne API 700E	(AC-17 Shelf C)	6/16/2010	6	$15,103.00	896-S	Fair	Awaiting Parts
147050	Thermo Fisher Scientific 49I-A1NNA	(AC-15)	9/30/2013	3	$7,917.81	1331659539	Fair	Awaiting Parts
142175	Teledyne API M701 Opt 86E	(AC-17)	1/10/2011	5	$4,057.13	3423	Fair	Cannibalized
92727	Wells Cargo	(MRAS Shop Parking Lot)	10/2/1995	21	$6,543.22	1WC200D1953033346	Fair	CMR Loan
110945	R&P 1400AB	(MRAS Shop D101)	5/8/2001	15	$16,975.00	140AB235500103	Fair	In Maintenance
141136	Bios Definer Model 220 - H	(Standards Lab Room B105)	11/17/2010	6	$1,890.99	120534	Fair	In Maintenance
141137	Bios Definer Model 220 - H	(Central District Office)	11/17/2010	6	$1,890.99	120536	Fair	In Maintenance
145216	Thermo Environmental Instruments, Inc 49i	(MRAS Shop D101D)	9/5/2012	4	$8,441.78	1227254949	Fair	In Maintenance
149486	Agilaire LLC 8872	(MRAS Shop D101)	6/16/2015	1	$6,950.00	459	Fair	In Maintenance
149487	Agilaire LLC 8872	G1290001	6/16/2015	1	$6,950.00	460	Fair	In Maintenance
149488	Agilaire LLC 8872	(MRAS Shop D101)	6/16/2015	1	$6,950.00	461	Fair	In Maintenance
149630	Agilaire LLC 8872	(MRAS Shop D101B)	9/15/2015	1	$6,950.00	488	Fair	In Maintenance
149632	Agilaire LLC 8872	(MRAS Shop D101B)	9/15/2015	1	$6,950.00	487	Fair	In Maintenance
149633	Agilaire LLC 8872	C1171002	9/15/2015	1	$6,950.00	490	Fair	In Maintenance
149826	Thermo Environmental Instruments, Inc 43I So2 Analyzer	(A137A)	11/9/2015	1	$11,497.28	JC 1526101647	Fair	In Maintenance
149904	Teledyne API M602B	(MRAS Shop D101)	11/16/2015	1	$0.00	SN 182	Fair	In Maintenance
Not Required	Vaisala WSP150	(MRAS Shop D101)	1/31/2011	5	$268.00	F5030017	Fair	In Maintenance
54321	Dell		9/27/2012	4	$0.00		Fair	In Storage
92305	Met One Instruments		1/1/2001	15	$0.00	n/a	Fair	In Storage
93290	NCI 124	(AC-14 Shelf E)	12/6/1995	20	$2,983.90	CVO881241300	Fair	In Storage
93291	NCI 124	(AC-14 Shelf E)	12/6/1995	20	$2,983.90	CVO53828585	Fair	In Storage
100359	Thermo Environmental Instruments, Inc 146C	(A137A)	12/18/1997	18	$9,272.10	146C-60152-326	Fair	In Storage
103172	Thermo Environmental Instruments, Inc 43C	(A137A)	4/14/1999	17	$8,406.00	43C-63409-339	Fair	In Storage
106558	ESC 8816	(AC-16 Shelf A)	1/7/2000	16	$4,025.00	3316	Fair	In Storage
109727	EKTO	(Trailer DNR 2096)	3/20/2001	15	$4,795.00	3200-13A	Fair	In Storage

110692	Aluma Tower	(MRAS Shop Parking Lot)	8/21/2000	16	$1,660.00	n/a	Fair	In Storage
127268	Thermo Environmental Instruments, Inc 48CTLE	(AC-17 Shelf B)	3/21/2006	10	$11,355.00	0536 114345	Fair	In Storage
132884	Thermo Environmental Instruments, Inc 42i	(AC-15)	6/28/2007	9	$11,305.00	CM07230014	Fair	In Storage
135239	Aluma Tower T-135-35	(MRAS Shop Parking Lot)	4/22/2008	8	$2,367.50	AT-82070-T-4-2	Fair	In Storage
141344	Dell Optiplex 780	(AC-14 Shelf F)	12/6/2010	5	$621.90	H8Y74P1	Fair	In Storage
141372	Dell Optiplex 780	(AC-14 Shelf E)	12/6/2010	5	$621.90	2ZQ74P1	Fair	In Storage
141384	Dell Optiplex 780	(AC-14 Shelf F)	12/6/2010	5	$621.90	H9Y74P1	Fair	In Storage
142164	Teledyne API T400	(AC-14 Shelf F)	1/21/2011	5	$7,819.25	87	Fair	In Storage
142176	Teledyne API M701 Opt 86E	(MRAS Shop D101A)	1/11/2011	5	$4,057.13	3424	Fair	In Storage
142203	Teledyne API T703	(AC-14 Shelf F)	2/4/2011	5	$9,757.51	57	Fair	In Storage
145224	Thermo Environmental Instruments, Inc 49i	(A137A)	9/5/2012	4	$8,441.78	1227254947	Fair	In Storage
145513	Thermo Fisher Scientific 43I So2 Analyzer	B0470015	2/19/2013	3	$11,497.28	1308857351	Fair	In Storage
147067	Thermo Fisher Scientific 49IPS-ANNA	B0013011	9/30/2013	3	$10,766.07	1331659582	Fair	In Storage
147073	Thermo Environmental Instruments, Inc 49IPS-ANNA	(A137A)	9/30/2013	3	$10,766.07	1331659627	Fair	In Storage
148241	Thermo Fisher Scientific 49I	F0850007	5/27/2014	2	$8,960.83	1417862272	Fair	In Storage
149977	Thermo Environmental Instruments, Inc 1405	A0050006	10/12/2015	1	$16,881.22	1405A232741511	Fair	In Storage
149980	Thermo Environmental Instruments, Inc 1405		10/12/2015	1	$16,881.22	1405A232801511	Fair	In Storage
150105	Teledyne API T700	B0890005	1/19/2016	0	$0.00	2330	Fair	In Storage
999999	Aluma Tower	(Budget Storage Warehouse)	8/27/2001	15	$1,660.00	n/a	Fair	In Storage
BL605022	EKTO 432SP	(Trailer ER015197)	5/25/2006	10	$5,875.00	3695-7	Fair	In Storage
EPA Supplied	Met One Instruments SASS	G0730012	1/1/2003	13	$0.00	A2593	Fair	In Storage
ER026442	Aluma Tower	(MRAS Shop Parking Lot)	10/16/1987	29	$1,000.25	n/a	Fair	In Storage
ER027456	Hewlett Packard 6114A	(AC-14 Shelf E)	12/5/1988	27	$1,900.00	2650A05563	Fair	In Storage
ERO22191		(Standards Lab Room B105 Cab D)			$1,266.66	11196/15276	Fair	In Storage
ERO22570		(Standards Lab Room B105)			$5,860.00	KB22-2	Fair	In Storage
ERO27676		(Standards Lab Room B105 Cab D)			$1,896.31	224	Fair	In Storage
ERO29230	Hastings 400	(Standards Lab Room B105 Cab D)			$3,187.66	168	Fair	In Storage
ERO29243	Aadco	(Standards Lab Room B105)			$8,500.00	2008	Fair	In Storage
ERO30044	Dasibi 5008	(A137I)			$11,725.00	61	Fair	In Storage
Not Required	Vaisala WSP150	(Weigh Lab Room B107)	1/31/2011	5	$268.00	F5030006	Fair	In Storage

BROWARD COUNTY AMBIENT AIR MONITORING INSTRUMENTATION INVENTORY

SITE	INSTRUMENT		PARAMETER	SERIAL NUMBER	Broward County Asset Tag	FDEP Asset Tag	External Agency	OLD LOCATION	CURRENT LOCATION	CONDITION	NOTES	CONFIRMED
	Make	Model					Asset Tag					
TMDL	APC	ES650	Back up battery				ARA (no asset tag)	Shed	Shed	Good	TMDL Parts	
1	Thermo	2025	PM2.5 Manual Sampler	22704				Field	Field	Good	Removed from site 30	
25	Thermo	49i	O3 Analyzer	CM08320015			Univ. of Michigan A55472	Lab	Field	Good	No Comment	
28	Wedding	Hi-Vol	PM10 Manual Sampler	0940901216U				Field	Field	Good	Will be replaced by Continuous PM10 MetOne BAM Jan 2015.	
30	Wedding	Hi-Vol	PM10 Manual Sampler	0940901219U				In Field	Storage	Fair	Offline due to pending platform construction at 12-011-5005. Will be replaced by a Tisch TE-6001 once platform complete.	
33	ESC	8832	Data Logger	2056				Field	Field	Good	No Comment	
Lab	Thermo	49i	O3 Analyzer	CM09080044				Field	Lab	Fair	**Removed CM09080044 from site 25 and replaced with CM08320015 2/2014. Repaired. Needs to be tested with O3PS.**	
NCORE	Tisch	TE-6001	PM10 Manual Sampler	1783				Storage	Storage	Good	To be installed at NCORE	
NCORE	RM Young	81000	Ultrasonic Anemometer	3485				Storage	Storage	Good	To be installed at NCORE	
NCORE	Wedding	Hi-Vol	PM10 Manual Sampler	0940901212U				Field	Field	Good	Will be replaced by Tisch TE-6001 when NCORE construction complete	
NCORE	Wedding	Hi-Vol	PM10 Manual Sampler	0940901222U				Field	Field	Good	Will be replaced by Tisch TE-6001 when NCORE construction complete	
NCORE	ESC	8816	Data Logger	2279	247445			Field	Field	Poor	Struck by Lightning	
NA	Thermo	42C	NO2/NO/NOx	42C-65491-348	106710			Storage	Storage	Poor	Pump Missing. Used for parts	
NA	Thermo	49C	O3 Analyzer	49C-76140-382	273157			Storage	Storage	Poor	Bad pump and lamps. Used for parts	
TMDL	Paroscientific Inc	MET4A	Digiquartz Met Meas. Sys	106346			ARA (?)	Shed	Shed	Good	TMDL Parts	
TMDL	RM Young	81000	Ultrasonic Anemometer	1759			ARA (?)	Shed	Shed	Good	Backup Sonic Anemometer	

BROWARD COUNTY AMBIENT AIR MONITORING INSTRUMENTATION INVENTORY

SITE			PARAMETER	SERIAL NUMBER	Broward County Asset Tag	FDEP Asset Tag	External Agency	OLD LOCATION	CURRENT LOCATION	CONDITION	NOTES	CONFIRMED
	Make	Model					Asset Tag					
1	ESC	8832	Data Logger	2372				Field	1	Good	No Comment	X
1	Hampshire Controls	140	Electronic Temperature Sensor	111215017				Lab	1	Good	No Comment	X
1	Thermo	49i-PS	O3 Calibrator	0727625035	296246			Field	1	Good	No Comment	X
1	Thermo	2025	PM2.5 Manual Sampler	22735	310232			Lab	1	Good	No Comment	X
1	Thermo	49i	O3 Analyzer	CM07340004	296245			33	1	Good	No Comment	X
8	Met One	SASS	PM2.5 Speciation Monitor	Y5150				8	8	Fair	Persistent issues with external probes, boards, and pumps	X
8	R&P	TEOM 1400A	PM2.5 Continous Monitor	140AB241850207	274026			8	Lab	Fair	Needs reconditioning.	X
25	ESC	8832	Data Logger	A4205K	311500			Lab	25	Good	25	X
25	Hampshire Controls	140	Electronic Temperature Sensor	110213730				Lab	25	Good	25	X
25	Teledyne	401	O3 Calibrator	96	239707			Lab	25	Good	Slated for replacement 2015	X
25	Thermo	111	Zero Air Generator	111-669174-354	258827			Lab	25	Good	28	X
25	Thermo	146i	Multigas Calibrator	1107747755	310233			Lab	25	Good	No Comment	X
25	Thermo	42i	NO2/NO/NOx	CM08260030	301627			Lab	25	Good	25	X
25	Thermo	49i	O3 Analyzer	CM08320015			U. of Mich. A555472	Lab	25	Good	Installed CM08320015 due to previous monitor malfunction. Removed CM09080044 2/2014	X
25	Thermo	49i-PS	O3 Calibrator	1150770008				NEW	Lab	Good	Received 3.2015	X
28	ESC	8832	Data Logger	A4296K				Field	28	Good	No Comment	X
28	Hampshire Controls	140	Electronic Temperature Sensor	111215016				Lab	1	Good	No Comment	X
28	Met One	BAM-1020	PM10 Continuous Monitor	P16733				Storage	28	Good	Online May 2014	X
28	Teledyne	T100	SO2 Analyzer	795				Lab	28	Good	No Comment	X
28	Teledyne	T300	CO Analyzer	720				Lab	28	Good	No Comment	X
28	Thermo	111	Zero Air Generator	0619317388				Lab	28	Good	No Comment	X
28	Thermo	146i	Multigas Calibrator	1107747756	310234			Lab	28	Good	No Comment	X
30	Thermo	2025i	PM2.5 Manual Sampler	2025IW207601503				Lab	30	Good	None	X
30	Tisch	PM10	PM10 Manual Sampler	0352			SAR 40049993	Lab	Lab	Fair	Donated by Sarasota	X
33	ESC	8832	Data Logger	A3855K				Lab	33	Good	Site 33 removal 12/2015; returned 01/2016	X
33	R&P	TEOM 1400A	PM2.5 Continous Monitor	140AB267250705				Lab	33	Good	Site 33 removal 12/2015; returned 01/2016	X
33	Thermo	49i	O3 Analyzer	CM07340001				Lab	33	Good	Site 33 removal 12/2015; returned 01/2016	X
33	Thermo	49i-PS	O3 Calibrator	0727625034				Field	Field	Good	No Comment	X
34: NCORE	ESC	8832	Data Logger	A3856K	308796			Lab	34	Good	NCORE	X
34: NCORE	ESC	8832	Data Logger	A4206K				Lab	Lab	Good	NCORE	X
34: NCORE	Hampshire Controls	140	Electronic Temperature Sensor	111215014				Lab	34	Good	NCORE	X
34: NCORE	Met One	SuperSASS	PM2.5 Speciation Montior	N9188				Storage	34	Good	NCORE	X
34: NCORE	Teledyne	701H	Zero Air Generator	536	310908			Lab	34	Good	NCORE	X
34: NCORE	Teledyne	T700U	Multigas Calibrator	85				Lab	34	Good	NCORE	X
34: NCORE	Thermo	111	Zero Air Generator	0619317387	291694			Lab	34	Good	NCORE	X
34: NCORE	Thermo	2025i	PM2.5 Manual Sampler	20262				Lab	34	Good	Installed online Jan 2015	X
34: NCORE	Thermo	2025i	PM2.5 Manual Sampler	20450				Lab	34	Good	Installed online Jan 2015	X
34: NCORE	Thermo	42C	NO/NO2/NOy Analyzer	0521312389				Lab	34	Good	NCORE	X
34: NCORE	**Thermo**	**42iY**	**NO/NO2/NOy Analyzer**	**1160570008**				**Lab**	**LAB**	**NEW**	**NCORE**	
34: NCORE	Thermo	43i-TLE	SO2 Trace Analyzer	1428862875				Lab	34	Good	NCORE	X
34: NCORE	Thermo	48C-TLE	CO Trace Analyzer	05150711728	285684			Lab	34	Good	NCORE	X
34: NCORE	Thermo	49i	O3 Analyzer	1113748257	310340			Lab	34	Good	NCORE	X
34: NCORE	Thermo	49i-PS	O3 Calibrator	1113748258	310341			Lab	34	Good	NCORE	X
34: NCORE	Thermo	5014i	PM10 Continuous Monitor	CM14191003				Lab	34	Good	Not Operational	X
34: NCORE	Thermo	2025i	PM2.5 Manual Sampler	20451				Lab	34	Good	NCORE	X
34: NCORE	URG	3000N	Black Carbon Sampler	B0580				8	34	Good	Transferred Jan 2015	X
35: Near Road	ESC	8832	Data Logger	A4462K				Lab	35	Good	Near Road	X
35: Near Road	Hampshire Controls	140	Electronic Temperature Sensor	111215015				Lab	35	Good	Near Road	X
35: Near Road	Teledyne	633	Aethalometer	AE33-P20-00017				Lab	35	Good	Near Road	X
35: Near Road	Teledyne	701H	Zero Air Generator	569	311164			Lab	35	Good	Near Road	X
35: Near Road	Teledyne	T200UP	NO2 Photolytic Analyzer	60				Lab	35	Good	In maintenance; needs new peek valve	X
35: Near Road	Teledyne	T700U	Multigas Calibrator	57	310200			Lab	35	Good	Near Road	X

BROWARD COUNTY AMBIENT AIR MONITORING INSTRUMENTATION INVENTORY

35: Near Road	Thermo	48i-TLE	CO Trace Analyzer	120475128				Lab	35	Good	Near Road	X
35: Near Road	Thermo	5014i	PM10 Continuous Monitor	CM14481011				Lab	35	Good	Needs to be relocated within shelter; Not operational	X
35: Near Road	TSI	UFP 3031	Ultrafine Particle Counter	3301202404				Lab	35	Good	Not Operational	X
General	Alicat	Wisper 5M	Flow Meter	105848				Lab	Lab	Good	No Comment	X
General	AP Buck	Mini Buck	Flow Meter	A1210				Lab	Lab	Fair	Not reliable for field use.	X
General	BGI	PM10	PM10 Orifice	3663			DER 14886	Lab	Lab	Fair	Donated by Sarasota	X
General	BGI	TetraCal	Flow Meter	000366				Field	Lab	Good	Used for Audits and Calibrations	X
General	BGI	TetraCal	Flow Meter	000784				Field	Lab	Good	Used for Audits and Calibrations	X
General	Bios	DC LITE HiFlow	Flow Meter	100934				Field	Lab	Good	None	X
General	Bios	DC LITE HiFlow	Flow Meter	107935				Field	Lab	Good	None	X
General	Bios	DC LITE HiFlow	Flow Meter	107936				Field	Lab	Good	None	X
General	Bios	DC Lite Med-Hi	Flow Meter	5922	264781			Field	Lab	Good	None	X
General	Bios	Definer 220	Flow Meter	115009	302772			Field	Lab	Good	No Comment	X
General	Bios	Definer 220	Flow Meter	115200				Lab	Lab	Good	No Comment	X
General	Chinook	M - Streamline Pro	Flow Meter	M030509/T040616				Field	Lab	Good	No Comment	X
General	Chinook	M - Streamline Pro	Flow Meter	M080306/T080306	302771			Field	Lab	Good	No Comment	X
General	Fluke	1551A Ex	Temperature	2840059				Lab	Lab	Good	No Comment	X
General	Fluke	1551A Ex	Temperature	2840067				Lab	Lab	Good	No Comment	X
General	General Metal Works	PM10 Orifice	PM10 Orifice	B-29073				Lab	Lab	Fair	None	X
General	General Metal Works	PM10 Orifice	PM10 Orifice	B-58861				Lab	Lab	Fair	None	X
General	Met One	9099	SASS Temp Calibrator	M1951				Lab	Lab	Good	No Comment	X
General	Tisch	PM10	PM10 Orifice	2743				Lab	Lab	Good	New	X
Lab	**Thermo**	**49i**	**O3 Analyzer**	**0824931779**				**Field**	**Lab**	**Good**	**Repaired by BC and Calibrated FDEP**	**X**
Lab	ESC	8816	Data Logger	2282	247452			Lab	Lab	Fair	None	X
Lab	R&P	TEOM 1400A	PM10 Continuous Monitor	140AB242030207	274025			Lab	Lab	Poor	In repair	X
Lab	Teledyne	T100	SO2 Analyzer	114		142312		FDEP	Lab	Fair	Donated by FDEP	X
Lab	Thermo	146C	Multigas Calibrator	146C-0619317-386	291693			Lab	Lab	Poor	Used for parts	X
Lab	Thermo	42C	NO/NO2/NOy Analyzer	42CY-70622-366		115552		FDEP	Lab	Fair	Donated by FDEP	X
Lab	Thermo	43C	SO2 Trace Analyzer	518112306	290406			Lab	Lab	Fair	None	X
Lab	Thermo	48i-TLE	CO Analyzer	824931783			Univ. of Michigan A55466	Lab	Lab	Fair	Instrument missing pump from TMDL setup	X
Lab	Tisch	TE-VFC+	Lead?	500-1032				Lab	Lab	Good	None	X
1U	ADS	TMA-150	Old Blue E-Temp Sensor		B-95083			Storage	Storage	Fair	None	X
1U	API	401	O3 Calibrator	97	239705			Storage	Storage	Fair	None	X
1U	API	401	O3 Calibrator	98	239706			Storage	Storage	Fair	None	X
1U	Cerex	UV Sentry	Open Path Air Monitor	HR2B1742	291469			Storage	Storage	Good	None	X
1U	Environics	S-100-P	Multigas Calibrator	1535	227244			Storage	Storage	Unknown	Not utilized	X
1U	ESC	8816	Data Logger	2283	247455			Storage	Storage	Poor	Will return to vendor for trade-in	X
1U	ESC	8816	Data Logger	2285	247453			Field	Storage	Poor	Will return to vendor for trade-in	X
1U	Gast	M200GX	Pump	ORL090092				Storage	Storage	Good	None	X
1U	QuickSet	4-52926-9C	Tripod	02G724				Storage	Storage	Good	None	X
1U	QuickSet	4-52926-9C	Tripod	07F665				Storage	Storage	Good	None	X
1U	R&P	2025	PM2.5 Manual Sampler	2025A202719805				Storage	Storage	Poor	Used for Parts	X
1U	R&P	2025	PM2.5 Manual Sampler	2025A202729805				Storage	Storage	Poor	Used for Parts	X
1U	R&P	TEOM 1400	PM10 Continuous Monitor	140AB23141 0006	258970			Lab	Storage	Poor	Not utilized	X
1U	R&P	TEOM 1400A	PM2.5 Continous Monitor	140AA-2231; 1400-5099				Storage	Storage	Poor	Not utilized	X
1U	Scott	Air-Pak	Emergency Air Cylinder		B-116308; 209497			Storage	Storage	Good	None	X
1U	Scott	Air-Pak	Emergency Air Cylinder		B-116307; 209498			Storage	Storage	Good	None	X
1U	Tektronix	2236	Oscilloscope	S/N	209399; B-102035			Storage	Storage	Fair	None	X
1U	Thermo	111	Zero Air Generator	111-66973-354	258828			Storage	Storage	Good	No Comment	X
1U	Thermo	2025	PM2.5 Manual Sampler	2025B219180608				Storage	Storage	Poor	Used for Parts	X
1U	Thermo	2025	PM2.5 Manual Sampler	2025B220150709	296201			Storage	Storage	Poor	Used for Parts	X
1U	Thermo	146C	Multigas Calibrator	146C-78984-390	278947			Lab	Storage	Good	Replaced by 146i	X
1U	Thermo	146C	Multigas Calibrator	146C-78985-390	278948			Lab	Storage	Good	Replaced by 146i	X
1U	Thermo	146C	Multigas Calibrator	146C-78986-390	278949			Field	Storage	Good	Replaced by 146i	X

BROWARD COUNTY AMBIENT AIR MONITORING INSTRUMENTATION INVENTORY

1U	Thermo	42C	NO2/NO/NOx	42C-64322-342	251595			Lab	Storage	Poor	Used for Parts	X
1U	Thermo	43C	SO2 Analyzer	TE-43C-74811-377	273147			Storage	Storage	Good	None	X
1U	Thermo	48C	CO Analyzer	32680149				Lab	Storage	Good	Formerly used by Sarasota	X
1U	Thermo	48C	CO Analyzer	48C-0515711729	285686			Storage	Storage	Poor	DAC board removed. Used for parts	X
1U	Thermo	48C	CO Analyzer	48C-0515711730	285685			Field	Storage	Poor	Used for parts.	X
1U	Thermo	49C	O3 Analyzer	49C-55284-303	239715	100153		Storage	Storage	Fair	FDEP	X
1U	Thermo	49C	O3 Analyzer	49C-55376-303	239716	100152		Storage	Storage	Poor	Used for Parts; FDEP	X
1U	Thermo	49C-PS	O3 Calibrator	49CPS-75269-379	273158			Storage	Storage	Good	None	X
1U	Tisch	1-TE -6001	PM10 Manual Sampler	1782				Storage	Storage	Good	To be installed at NCORE	X
Air Toxics	Agilent	5973	Mass Spectrometer	US10461778	278136			Lab	Lab	Good	No Comment	X
Air Toxics	Agilent	00HP	Ion Gauge	US6017346				Lab	Lab	Good	No Comment	X
Air Toxics	Agilent	5975C	Mass Spectrometer	US12513A13				Lab	Lab	Good	No Comment	X
Air Toxics	Agilent	6890N	Gas Chromatograph	US10148058	278136			Lab	Lab	Good	No Comment	X
Air Toxics	Agilent	7890A	Gas Chromatograph	CN12511029				Lab	Lab	Good	No Comment	X
Air Toxics	Agilent	Micro E	Ion Gauge	G311B5440				Lab	Lab	Good	No Comment	X
Air Toxics	Amtek	IPI Jofra	Vacuum/Pressure Gauge	9281096				Lab	Lab	Good	No Comment	X
Air Toxics	Ashcroft	0-2500 mm Hg	Absolute Pressure Gauge	E294528				Lab	Lab	Good	No Comment	X
Air Toxics	Edwards	E2M1.5	Vacuum Pump	46311013				Lab	Lab	Good	No Comment	X
Air Toxics	Entech	3100A	Can Cleaning System	143	278138			Lab	Lab	Good	No Comment	X
Air Toxics	Entech	7100A	Preconcentrator	238	278137			Lab	Lab	Good	No Comment	X
Air Toxics	Entech	TM1000P	Sample Programmer	202				Lab	Lab	Good	No Comment	X
Air Toxics	Entech	TM1000P	Sample Programmer	203				Lab	Lab	Good	No Comment	X
Air Toxics	GilAir3	Sensidyne 010	Air Sampler	20120701006				Lab	Lab	Good	No Comment	X
Air Toxics	GilAir3	Sensidyne 010	Air Sampler	20120701007				Lab	Lab	Good	No Comment	X
Air Toxics	Markes	TD100	Thermal Desorber	GB00K10309				Lab	Lab	Good	No Comment	X
Air Toxics	Tisch	T100	Air Sampler	N/A				Lab	Lab	Good	No Comment	X
Air Toxics	Vacuubrand	ME1	Vacuum Pump	35680102				Lab	Lab	Good	No Comment	X

CITY OF JACKSONVILLE, ENVIRONMENTAL QUALITY DIVISION

AMBIENT AIR MONITORING ACTIVITY

DEPLOYED* EQUIPMENT CONDITION AS OF MARCH 31, 2016

Description	Location	Acquisition Date	Age	Serial Number	Condition
TE 43i	CEDAR BAY	2006	10	0616717186	Good
ENV 6100	6801 Cedar Bay Rd	2010	6	4776	Good
ESC 8832	12-031-0081	2004	12	A0540	Good
TE 49i	CISCO ROAD	2015	1	1430863374	Good
TE 49i-PS	4770 Cisco Dr. W	2015	1	1430863375	Good
ESC-8832	12-031-0106	2004	12	A0539	Good
TE Model 111		2009	7	0907935555	Good
TE 43i	FT CAROLINE	2015	1	1436363426	Good
ENV 6100	6241 Ft. Caroline Rd	2008	8	4306	Good
ESC-8832	12-031-0097	2004	12	A0549	Good
TE 42i	KOOKER PARK	2010	6	817630890	Good
ENV 6100	2900 Bennett St	2008	8	4312	Good
ESC-8832	12-031-0032	2004	12	A0586	Good
TE 43i		2012	4	1225154501	Good
TE 2025i		2014	2	20683	Good
TEOM 1405		2014	2	20366	Good
TE 48i	LEE HIGH	2006	10	0611616470	Good
ENV 6100	1184 McDuff Ave	2009	7	4491	Good
ESC-8832	12-031-0107	2004	12	A0543	Good
TE 2025i	MANDARIN	2014	2	20691	Good
TEOM 1400AB	14932 Mandarin Rd	Loaner from DEP. New 1405 to be installed 2016.		24547	Good
ESC-8832	12-031-0098	2004	12	A0542	Good
TE 49i	MAYO	2009	7	CM09040077	Good
TE 49i-PS	13600 Wm Davis Pwy	2012	4	1225154500	Good
ESC-8832	12-031-0100	2004	12	A0538	Good
TEOM 1400AB		2003	11	24508	Good
TE 42i	PEPSI PLACE	2014	2	1327059041	Good
ENV 6100	5895 Pepsi Lane	2014	2	6508	Good
ESC-8832	12-031-0108	2014	2	A4688K	Good
TE 48i		2014	2	1308857434	Good
Teledyne 701H		2014	2	753	Good
TE 5014i		2014	2	CM13351001	Good
TE 48i	ROSSELLE & COPELAND	2014	2	1436363425	Good
ENV 6100	2189 Rosselle Street	2007	9	3886	Good
ESC-8832	12-031-0084	2004	12	A0546	Good
TEOM 1405		2015	1	23082	Good
TE 49i	SHEFFIELD ELEM	2009	7	CM09040078	Good
TE 49i-PS	13333 Lanier St	2009	7	0908935367	Good
ESC-8832	12-031-0077	2004	12	A0548	Good
TEOM 1400AB		2003	13	24505	Good
TE 43i	SOUTHSIDE PLYGD	2005	11	520811801	Good
ENV 6100	1605 Minerva St	2007	9	3887	Good
ESC-8832	12-031-0080	2004	12	A0541	Good
TE 48C		Back-up equipment temporarily in place until 48i (1216753230) repaired		67479-356	Good
TE 2025i	SUNNY ACRES	2014	2	20689	Good
TE 2025i	9429 Merrill Rd	2015	1	20793	Good
	12-031-0099				

*Backup equipment consists of at least (1) operable monitor for each Criteria Pollutant Monitor deployed with a minmum condition grade of 'Fair'.

Location	Manufacture	Model No.	Serial No.	Description	PCN	Status	ACQ Date	Condition
Apollo Bch	R&P	1400ab	140AB23579	TEOM PM MONITOR		Active	1-Jan-06	FAIR
Apollo Bch	Thermo	146C	0401304578	DYNAMIC GAS CALIBRATOR	0130567	Active	29-Jan-04	GOOD
Apollo Bch	ADS			Zero Air System		Active	1-Jan-99	GOOD
Apollo Bch	Agilaire	8832	A4036K	DATA LOGGER	0105689	Active	15-Oct-97	GOOD
Apollo Bch	Thermo	43i	JC1411401168	Sulfur Dioxide Analyzer	159674	Active	20-May-14	GOOD
CSX Railyard	Tisch	TE-1000	VFC P7639	High Volume Sampler		Active	12-Aug-10	GOOD
CSX Railyard	Tisch	TE-1000	VFC P7669	High Volume Sampler		Active	12-Aug-10	GOOD
CSX Railyard	ESC	8816	1482	DATA LOGGER	0105557	Active	15-Oct-97	GOOD
CSX Railyard	RM Young	81000	01820	Ultrasonic Anemometer	139851	Active	07-Sep-06	GOOD
Davis Island	Thermo	43C	43C-71072-367	SO2 Analyzer	0118923	Active	30-Sep-01	GOOD
Davis Island	Thermo	49i	1417062039	Ozone Analyzer	159672	Active	19-Jun-14	GOOD
Davis Island	Thermo	146C	0401304577	DYNAMIC GAS CALIBRATOR	0130566	Active	29-Jan-04	GOOD
Davis Island	Teledyne-API	701	4536	Zero Air System	155344	Active	29-Mar-13	GOOD
Davis Island	Agilaire	8832	A3193K	DATA LOGGER	0105558	Active	15-Oct-97	GOOD
Davis Island	Thermo	1405	1405A233691512	TEOM PM MONITOR		Active	6-Jan-16	GOOD
Davis Island	Thermo	49i PS	1417062040	Ozone Calibrator	159673	Active	19-Jun-14	GOOD
Davis Island	RM Young	81000	2464	Ultrasonic Anemometer		Active		GOOD
East Bay	Thermo	146C	146C-74126-375	DYNAMIC GAS CALIBRATOR	0123699	Active	28-May-02	GOOD
East Bay	Agilaire	8832	A4031K	DATA LOGGER	0105566	Active	15-Oct-97	GOOD
East Bay	Teledyne-API	701H	114	Zero Air System	162087	Active	11-May-15	GOOD
East Bay	Thermo	43i	1151630005	Sulfur Dioxide Analyzer	162635	Active	30-Jun-15	GOOD
East Bay	API			Shelter Temp Sensor	34888	Active	Pre 1986	POOR
EFS	Tisch	Sample Saver	VFC P7538	High Volume Sampler		Active	1-Jan-10	GOOD
Gandy	Teledyne-API	T200		NOX Analyzer	155475	Active	9-May-12	GOOD
Gandy	Thermo	49i	0619417392	Ozone Analyzer	0139230	Active	29-Jun-06	GOOD
Gandy	R&P	1400ab	140AB236660105	TEOM PM MONITOR	0118205	Active	06-Sep-01	FAIR
Gandy	Thermo	146C	0407205091	DYNAMIC GAS CALIBRATOR	0131013	Active	05-Apr-04	GOOD
Gandy	Thermo	49i PS	0717722871	Ozone Calibrator	0142736	Active	20-Jul-07	GOOD
Gandy	Teledyne-API	701H	2755	Zero Air System	146378	Active	22-Jul-08	GOOD
Gandy	Agilaire	8832	A3123K	DATA LOGGER	0105564	Active	15-Oct-97	GOOD
Gandy	API			Shelter Temp Sensor	34884	Active	Pre 1986	POOR
Gardinier Park	Thermo	1405	1405A229161408	TEOM PM MONITOR	161072	Active	20-Oct-14	GOOD
Gardinier Park	Agilaire	8832	A4030K	DATA LOGGER	0118149	Active	06-Sep-01	GOOD
Gardinier Park	API			Shelter Temp Sensor	34875	Active	1/1/1986	POOR
Johnson Control	Tisch	TE-1000	VFC P7808	High Volume Sampler		Active	1-Jan-10	GOOD
Kenly	Tisch	TE-1000	VFC P7539	High Volume Sampler		Active	3-Jun-10	GOOD
Munro Street	Teledyne-API	633	AE33-S01-00093	Aethalometer	157304	Active	22-May-13	GOOD
Munro Street	Teledyne-API	T300U	124	CO	157307	Active	22-May-13	GOOD
Munro Street	Teledyne-API	T200UP	75	Nox	157308	Active	22-May-13	GOOD
Munro Street	Thermo	5014i	13381008	Continuous PM2.5 Beta	158964	Active	24-Feb-14	GOOD
Munro Street	Teledyne-API	T700UP	612	Multi-gas Dillution Calibrator	157306	Active	22-May-13	GOOD
Munro Street	Teledyne-API	701H	678	Zero Air System	157305	Active	22-May-13	GOOD
Munro Street	Agilaire	8832	A4646K	DATA LOGGER	157299	Active	31-May-13	GOOD
Munro Street	Teledyne-API	651	M651130402	Ultrafine Particle Counter	157303	Active	22-May-13	GOOD
Munro Street	RM Young	81000	00425	Ultrasonic Anemometer	118207	Active	06-Sep-01	GOOD
Munro Street	RM Young	81000	01389	Ultrasonic Anemometer	133908	Active	17-Dec-04	GOOD
Patent	Tisch	TE-1000	VFC P7807	High Volume Sampler		Active	3-Jun-10	GOOD
Simmons Park	Thermo	43C	43C-60170-327	SO2 Analyzer	0107292	Active	20-Jul-98	GOOD
Simmons Park	Thermo	146C	146C-60550-327	DYNAMIC GAS CALIBRATOR	0107293	Active	20-Jul-98	GOOD
Simmons Park	Agilaire	8832	A3124K	DATA LOGGER	0131960	Active	13-Nov-03	GOOD
Simmons Park	Teledyne-API	701H	115	Zero Air System	162086	Active	11-May-15	GOOD
Simmons Park	Thermo	49i PS	1151660005	Ozone Calibrator	162634	Active	1-Jul-15	GOOD
Simmons Park	Thermo	49i	1151660004	Ozone Analyzer	162633	Active	1-Jul-15	GOOD
Simmons Park	RM Young	81000	2463	Ultrasonic Anemometer		Active		GOOD
Sydney	Teledyne-API	T700UP	295	DYNAMIC GAS CALIBRATOR	155474	Active	9-May-12	GOOD
Sydney	Thermo	48CTLE	0515211711	CO Trace Level Analyzer	0135868	Active	30-Jun-05	GOOD
Sydney	Thermo	5014i	CM13181009	Continuous PM2.5 Beta	158214	Active	11-Jul-13	GOOD
Sydney	Thermo	49i	0717722870	Ozone Analyzer	0142735	Active	20-Jul-07	GOOD
Sydney	Thermo	2025	2025B215190508	PARTISOL SAMPLER	0136048	Active	16-Apr-08	FAIR
Sydney	Thermo	2025	2025B214300803	PARTISOL SAMPLER	145254	Active	16-Apr-08	FAIR
Sydney	Thermo	2025i	2025i20611201	PARTISOL SAMPLER		Active	12-Mar-12	FAIR
Sydney	General Metals	PUF	11038	PUF Air Sampler		Active		GOOD
Sydney	Graseby	PUF		PUF Air Sampler		Active		GOOD
Sydney	Met One	SASS	A4037	Speciation Aerosol Sampling System		Active	13-Jan-05	FAIR
Sydney	Thermo	42i-Y	1417162075	NO-DIF-NOY ANALYZER	159671	Active	24-Jun-14	GOOD
Sydney	Thermo	49i PS	0619417393	Ozone Calibrator	0139231	Active	29-Jun-06	GOOD
Sydney	Teledyne-API	701H	2754	Zero Air System	146377	Active	22-Jul-08	GOOD
Sydney	Agilaire	8832	A4645K	DATA LOGGER	157300	Active	31-May-13	GOOD
Sydney	URG	3000N		Carbon Sampling System	161613	Active	3-Mar-15	GOOD
Sydney	Thermo	43iTLE	910735777	SO2 Analyzer Trace	0150562	Active	21-Apr-09	GOOD
Sydney	RM Young	81000	01394	Ultrasonic Anemometer	133904	Active	17-Dec-04	GOOD
Sydney	RM Young	81000	4349	Ultrasonic Anemometer	162637	Active	8/7/2015	GOOD
AMD Lab	MET ONE	SASS	E1153	Speciation Aerosol Sampling System	0134297	Repair	26-Jan-05	FAIR
AMD Lab	API			Shelter Temp Sensor	34874	Repair		POOR

Location	Manufacture	Model No.	Serial No.	Description	PCN	Status	ACQ Date	Condition
AMD Lab	API			Shelter Temp Sensor	34876	Repair		POOR
AMD Lab	RM Young	81000	00288	Ultrasonic Anemometer	114884	Repair	17-Aug-00	FAIR
AMD Lab	RM Young	81000	01392	Ultrasonic Anemometer	133907	Repair	17-Dec-04	GOOD
Manufacture	RM Young	81000	3727	Ultrasonic Anemometer	156947	Repair	1/11/2013	GOOD
AMD Lab	Thermo	43C	43C-64052-34241	SO2 Analyzer	0113125	Stand-by	30-Sep-99	FAIR
AMD Lab	Thermo	49C		Ozone Analyzer	102851	Stand-by	17-Oct-96	FAIR
AMD Lab	URG	3000N	3N-B0356	Carbon Sampling System		Stand-by	1-Jan-09	FAIR
AMD Lab	Thermo	43CTLE	0509111179	SO2 Analyzer Trace	0135869	Stand-by	30-Jun-05	GOOD
AMD Lab	R&P	1400ab	140AB231200006	TEOM PM MONITOR	0115247	Stand-by	31-Aug-00	FAIR
AMD Lab	Thermo	146C	146C-71430-368	DYNAMIC GAS CALIBRATOR	0118924	Stand-by	26-Oct-01	FAIR
AMD Lab	Thermo	146C	146C-60569-327	DYNAMIC GAS CALIBRATOR	0107295	Stand-by	20-Jul-98	FAIR
AMD Lab	Thermo	146i	1150560039	DYNAMIC GAS CALIBRATOR	162037	Stand-by	12-Mar-15	GOOD
AMD Lab	Thermo	146i	1150560040	DYNAMIC GAS CALIBRATOR	162036	Stand-by	11-Mar-15	GOOD
AMD Lab	Agilaire	8872	478	DATA LOGGER	162688	Stand-by	3-Sep-15	GOOD
AMD Lab	Thermo	49C	49C-71572-369	Ozone Analyzer	0118921	Stand-by	30-Sep-01	FAIR
AMD Lab	RM Young		00974	Precipitation Gauge	118206	Stand-by	06-Sep-01	FAIR
AMD Lab	API			Shelter Temp Sensor	34877	Stand-by		POOR
AMD Lab	API			Shelter Temp Sensor	34881	Stand-by		POOR
AMD Lab	Met One	50.5	A3130	Ultrasonic Anemometer		Stand-by		FAIR
AMD Lab	Met One	50.5	A3264	Ultrasonic Anemometer		Stand-by		FAIR
AMD Lab	RM Young	4503/4509	205905	Wind Vane	74185	Stand-by	4/1/1991	FAIR
AMD Lab	RM Young	4503/4509	206205	Wind Vane	74186	Stand-by	4/1/1991	FAIR
AMD Lab	RM Young	4503/4509	206005	Wind Vane	74187	Stand-by	4/1/1991	FAIR
AMD Lab	RM Young	4503/4509	206105	Wind Vane	74188	Stand-by	4/1/1991	FAIR
AMD Lab	RM Young	4503/4509	205805	Wind Vane	74189	Stand-by	4/1/1991	FAIR
AMD Lab	RM Young	4503/4509	2506	Wind Vane	96870	Stand-by	5/24/1995	FAIR
AMD Lab	RM Young	4503/4509	2508	Wind Vane	96872	Stand-by	5/24/1995	FAIR
AMD Lab	RM Young	4503/4509	2505	Wind Vane	96873	Stand-by	5/24/1995	FAIR
AMD Lab	Thermo	49C PS	49CPS-70780-366	Ozone Calibrator	0118920	Stand-by	30-Sep-01	GOOD
AMD Lab	Thermo	49C PS	0325801888	Ozone Calibrator	0129398	Stand-by	30-Sep-03	GOOD
AMD Lab	Agilaire	8832	A3125K	DATA LOGGER	0118147	Stand-by	06-Sep-01	GOOD
AMD Lab	API			Shelter Temp Sensor	34879	Stand-by		POOR
East Bay	ESC	8816	1490	DATA LOGGER	0105552	Stand-by	15-Oct-97	FAIR
EPC Boat House	Tisch	TE-5170-DV TSPVFC	P7404	High Volume Sampler		Stand-by		GOOD
EPC Boat House	Tisch	TE-5170-DV TSPVFC	P7405	High Volume Sampler		Stand-by		GOOD
EPC Boat House	Tisch	TE-5170-DV TSPVFC	P7406	High Volume Sampler		Stand-by		GOOD
EPC Boat House	Tisch	TE-5170-DV TSPVFC	P7407	High Volume Sampler		Stand-by		GOOD
EPC Boat House	Tisch	TE-5170-DV TSPVFC	P7408	High Volume Sampler		Stand-by		GOOD
EPC Boat House	Tisch	PUF	2958	PUF Air Sampler	146302	Stand-by	17-Jul-08	GOOD
Gandy	ESC	8816	4093	DATA LOGGER	0118148	Stand-by	06-Sep-01	GOOD
Sydney	Thermo	146C	146C-73239-373	DYNAMIC GAS CALIBRATOR	DEP Purchae 2002	Stand-by	1-Jan-02	GOOD
Sydney	Thermo	146C	146C-73240-373	DYNAMIC GAS CALIBRATOR	DEP Purchae 2002	Stand-by	1-Jan-02	GOOD
TMDL Trailer	ETI	NOAH IV	4095	Rain Gauge		Stand-by		FAIR
TMDL Trailer	ETI	NOAH IV	4097	Rain Gauge		Stand-by		FAIR
TMDL Trailer	ParoScientific	Met 4 A	106006	T/RH/BP		Stand-by		FAIR

Manatee County Inventory

ENT SCHEDULE

Priority Purchase Year (1-8)	Current Equipment	S/N or Asset	Purchase Date	Quantity Needed	Replacement Equipment	Target Replacement Fiscal Year	Current Condition
	Color Codes						
	Headers (Fixed)						
	New or No Replacement Sched.						
	Data Entry (Replacement Equip)						
	Data Entry (New Equip)						
	Data Entry (Obsolete Equip.)						
	Calculation Cell with Formula	CALCS					
1	Air Monitoring Trailer (G.T. Bray)	N/A	1998	1	Modular Biulding (G.T. Bray)	Replaced	Good
1	Air Monitoring Shelter Interior (GT Bray)	N/A	1998	1	Shtr. Int. (GT) ($2000) + Site/Prmts ($4000)	Replaced	Good
2	GAST 1 HAB-11T-M100X (Zero-Air) Port	N/A	Unkn.	1	GAST 1 HAB-11T-M100X (Zero-Air) Port	FY 17/18	Fair
2	GAST 1 HAB-11T-M100X (Zero-Air) G.T. Bray	N/A	Unkn.	1	GAST 1 HAB-11T-M100X (Zero-Air) G.T. Bray	FY 17/18	Far
2	GAST 1 HAB-11T-M100X (Zero-Air) 39th St.	N/A	Unkn.	1	GAST 1 HAB-11T-M100X (Zero-Air) 39th St.	FY 17/18	Fair
2	LabComp ATX Shelter Temperature (obsolete)	Various	Unkn.	1	Omega HX93BV1-D Duct Mount Temperature / Re	FY 17/18	Good
2	LabComp ATX Shelter Temperature (obsolete)	Various	Unkn.	1	Omega HX93BV1-D Duct Mount Temperature / Re	FY 17/18	Good
2	LabComp ATX Shelter Temperature (obsolete)	Various	Unkn.	1	Omega HX93BV1-D Duct Mount Temperature / Re	FY 17/18	Good
2	Synchrotac Hand-held Anem. (Ref.) (Obs.)	N/A	Unkn.	1	Extech AN400 Cup Thermo-Anemometer	FY 17/18	Fair
2	Meteorological Tower (Port)	N/A	1992	1	Glen Martin Met Tower model MF1331	FY 17/18	Fair
3	N/A	N/A	New	1	Omega HX93BV1-D (Spare)	FY 16/17	New
3	GAST 1 HAB-11T-M100X (Shop)	N/A	Unkn.	1	GAST 1 HAB-11T-M100X (Shop)	FY 18/19	Fair
3	Portable Dehumidifier (Various Models)	Various	Unkn.	1	Portable Dehumidifier (50 Qt.)	FY 18/19	Good
3	Portable Dehumidifier (Various Models)	Various	Unkn.	1	Portable Dehumidifier (50 Qt.)	FY 18/19	Good
3	Portable Dehumidifier (Various Models)	Various	Unkn.	1	Portable Dehumidifier (50 Qt.)	FY 18/19	Good
3	Barometer High Altitude, Portable	99179	Unkn.	1	BIOS Definer 220M Med. Flow (Check Std.)	FY 18/19	Good
3	N/A	N/A	New	1	AirVision Web Interface	FY 18/19	New
3	ESC 8832 Data Logger (39th St.)	A3763K	2011	1	Agilaire 8872 Site Node (39th)	FY 18/19	Good
4	N/A	N/A	New	1	2B Tech Mod. 306 O3 Cal Src.	FY 19/20	New
4	Meteorological Tower (G.T. Bray Park)	N/A	1998	1	Glen Martin Met Tower model MF1331	FY 19/20	Good
5	Air Monitoring Trailer (39th Street)	N/A	1998	1	Modular Building (39th Street)	FY 20/21	Good
5	Air Monitoring Shelter Interior (39th St.)	N/A	1998	1	Shtr. Int. (39th) ($2000) + Site/Prmts ($4000)	FY 20/21	Good
6	ESC 8832 Data Logger (Port)	A4002K	2012	1	Agilaire 8872 Site Node (Port)	FY 21/22	Good
6	2B Tech 202 Ozone Monitor	903	2010	1	2B Tech 202 (or equiv.)	FY 21/22	Good
7	Airlink GX400 Cellular Gateway	Various	2012	1	Cellular Gtwy ($750) + VPN/Security ($1500)	FY 22/23	Good
7	Airlink GX400 Cellular Gateway	Various	2012	1	Cellular Gtwy ($750) + VPN/Security ($1500)	FY 22/23	Good
7	Airlink GX400 Cellular Gateway	Various	2012	1	Cellular Gtwy ($750) + VPN/Security ($1500)	FY 22/23	Good
7	ESC 8832 Data Logger (Spare)	A1583K	2006	1	Agilaire 8872 Site Node (Spare)	FY 22/23	Good
8	Meteorological Tower (39th Street)	N/A	1998	1	Glen Martin Met Tower model MF1331	FY 23/24	Good
8	Fluke 51-II Temperature	14390153	2010	1	Fluke 51-II Temperature (Equiv.)	FY 23/24	Good
8	Fluke 175 DVM	15880829	2011	1	Fluke 175 DVM (Equiv.)	FY 23/24	Good

8	Thermo 49iPS Primary Std. (G.T. Bray)	1023843898	2010	1	Thermo 49i PS (Equiv.)	FY 23/24	Good
9+	Thermo 49iPS Primary Std. (39th Street)	1116648522	2011	0	N/A	N/A	Good
9+	Thermo 49iPS Primary Std. (Port)	1311657726	2013	0	N/A	N/A	Good
9+	Fluke 715 Loop Calibrator	2799124	2014	0	N/A	N/A	Good
9+	2B Tech 202 Ozone Monitor	1092	2011	0	N/A	N/A	Good
9+	BIOS Definer 220M Med. Flow (Pri. Std.)	135621	2014	0	N/A	N/A	Good
9+	2B Tech 202 Ozone Monitor	1094	2011	0	N/A	N/A	Good
9+	2B Tech 202 Ozone Monitor	1221	2012	0	N/A	N/A	Good
9+	Air Monitoring Shelter (Port)	N/A	2012	0	N/A	N/A	Good
9+	Air Monitoring Shelter Interior (Port)	N/A	2012	0	N/A	N/A	Good
9+	ESC 8832 Relay Out Card	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Relay Out Card	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Relay Out Card	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Relay Out Card	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Relay Out Card	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Voltage In Card	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Voltage In Card	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Voltage In Card	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Met In Card	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Status In Card (Obs.)	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Status In Card (Obs.)	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Status In Card (Obs.)	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Status In Card (Obs.)	N/A	Unkn.	0	N/A	N/A	Good
9+	ESC 8832 Status In Card (Obs.)	N/A	Unkn.	0	N/A	N/A	Good
9+	Fluke 1621 Earth Ground tester	S090300921A3	2012	0	Fluke 1623-2 GEO Earth Ground Tester	N/A	Good
9+	ESC 8832 Data Logger (G.T. Bray)	A1583K	2006	0	Agilaire 8872 Site Node (G.T. Bray)	N/A	Good

We have 4, 2B 202s (1 spare: Rows 38, 50, 52, 53 in the spreadsheet), and 4 Data loggers (3 x 8832, 1 x 8872 spare (still waiting on configuration)). We have 3 x 49i PS (no spares).

Currently, 2B S/N 1092 is at 39th, 2B S/N 903 is waiting on re-installation into at our new GT Bray shelter (hopefully, soon: we have some electrical and A/C issues to fix), and 2B S/N 1094 is at the Port. Our spare monitor is currently 2B S/N 1221. Monitor locations change if one is removed from service for major maintenance/repairs.
Currently, we are still focusing on replacing infrastructure and auxiliary equipment. Our zero air systems are next.

Miami-Dade County Inventory

SITE	SITE #	TYPE OF EQUIPMENT	COMPANY	MODEL	CONDITION
CORAL REEF	086-0031	CO MONITOR	T-API	300E	Good
		DATALOGGER	ESC	8816	Good
		ZERO AIR SYS	T-API	M701	Good
HOMESTEAD	086-6001	DATALOGGER	ESC	8816	Good
		PM2.5 SAMPLER FRM	R&P	2025	Fair
		TEOM	R&P	1400A	Good
KENDALL	086-0034	CO MONITOR	T-API	300E	Good
		DATALOGGER	ESC	8816	Good
		ZERO AIR SYS	T-API	M701	Good
LAB ANNEX	086-4002	CO MONITOR	T-API	300E	Good
		DATALOGGER	ESC	8816	Good
		MIXER	ENVIRONICS	6100	Good
		NO2 I-SERIES MONITOR	T-API	T200	Good
		ZERO AIR SYS	T-API	M701	Good
MIAMI FIRE	086-1016	DATALOGGER	ESC	8816	Good
		PM10	ANDERSEN	1200	Good
		PM10	ANDERSEN	1200	Good
		PM2.5 SAMPLER FRM	PARTISOL	2025*i*	Fair
		PM2.5 SAMPLER FRM	PARTISOL	2025*i*	Fair
		TEOM	R&P	1400A	Good
PENNSUCO	086-0019	DATALOGGER	ESC	8816	Good
		MIXER	ENVIRONICS	6100	Good
		SO2 MONITOR	TEI	43i	Good
		ZERO AIR SYS	T-API	M701	Good
PERDUE	086-0029	DATALOGGER	ESC	8816	Good
		O3 CAL PRIMARY STANDARD	THERMO SCIENTIFIC	49I-PS	Good
		OZONE MONITOR	T-API	T400	Good
PALM SPRINGS	086-0033	PM2.5 SAMPLER FRM	PARTISOL	2025*i*	Good
ROSENSTIEL	086-0027	DATALOGGER	ESC	8832	Good
		MIXER	ENVIRONICS	6100	Good
		NO2 I-SERIES MONITOR	TEI	42i	Good
		OZONE PRIMARY	TEI	49I-PS	Good

	O3 MONITOR	TEI	49C	Good
	ZERO AIR SYS	T-API	M701	Good

Orange County Inventory

Model	S/N	Location	In Use (✓)	O.C. Prop. ID#	Age/ Condition
TEI 49iPS	0702620339	WP		731316	Good
TEI 49iPS	1336460151	WG		749643	Good
TEI 49iPS	1007441118	WP	(✓)	970874	Good
TEI 49iPS	1151380003	WG	(✓)	756626	Good
TEI 49_i	1326659026	WP	(✓)	750204	Good
TEI 49i	1336460150	WP		749642	Good
TEI 49i	0702620337	WG	(✓)	731515	Good
TEI 49i	0702620338	WG		731314	Good
TEI 48i	0526912537	WP		728820	Good
TEI 48i	0526912538	WP	(✓)	728821	Good
TEI 48i	1500163900	WP		755736	Good
TEI 48i	1500163901	NR		755737	Good
TEI 43i	JC1320600867	WP		750205	Good
TEI 43i	0607415836	WP	(✓)	732713	Good
TEI 42i	1106147374	WP		741524	Fair
TEI 42i	0523512655	WP		728819	Fair
TEI 42i	0525812398	WP		728357	Fair
TEI 42i	1500163902	NR		755738	Good
TEI 42i	1336460152	WP	(✓)	751896	Good
TEI 111	1227254852	WP		747312	Good
TEI 111	111-22824-207	WP		911591	Good
TEI 111	1500163903	WP	(✓)	755740	Good
TEI 111	1326659028	NR		750203	Good
TEI 146i	0926137960	WP		739038	Fair
TEI 146i	1007441117	WP	(✓)	970873	Good
TEI 146i	1500163897	NR		755739	Good
TEI 146i	1227254853	WP		747329	Good
8832	A4001K	WG		743638	Good; plan to take offline very soon

8832	A4812K	WP	(✓)	750738	Good; plan to take offline very soon
8832	A4813K	NR		751210	Good; plan to take offline very soon
8832	A4091K	WG	(✓)	742742	Good; plan to take offline very soon
8872	0550	WP		761065	Good
8872	0551	NR		761066	Good
8872	0548	WG		761067	Good
8872	0549	O		761068	Good; intended as backup
TEI 1405	1405A229871411	WP	(✓)	755741	Good
TEI 1405	1405A231741509	WP		756961	Good
TEI 5014_i	CM13351002	NR		750381	Good
TEI 5014_i	CM14291008	WP	(✓)	755028	Good
TEI 5014_i	CM14291007	WP		755027	Good
TEI 2025i	2025i207141411	WP	(✓)	755742	Good
TEI 2025i	2025i207161411	WP	(✓)	755743	Good
TEI 2025i	2025i201111109	WP	(✓)	743632	Good
Nutech 2701	030527010015 (use last 5 digits)	WP	(✓)	756490	Fair
Definer 220-L	111132	WP	(✓)	730582	Good
Definer 220-L	141461	WP		755247	Good
Defender 530-H	137288	WP	(✓)	756338	Fair
Defender 530-H	139494	WP		755246	Fair
Streamline Pro M	C150101	WP	(✓)	755697	Good
Streamline Pro S	C150102	WP	(✓)	755698	Good
DC-2M	107676	WP	(✓)	733160	Fair
computer and network related					
Juniper ethernet switch	CW0214282125	WP	(✓)	755734	Good
Juniper ethernet switch	CW0214191482	warehouse		756546	Good
Juniper ethernet switch	CW0214191788	NR	(✓)	756547	Good
Cisco ASA 5505	NA	WP	(✓)	NA	Good
Cisco ASA 5505	NA	WG	(✓)	NA	Good
Cisco ASA 5505 (NR)	NA	NR	(✓)	NA	Good

Cisco ASA 5505 WP backup	NA	WP		NA	Good
Cisco ASA 5505 WG backup	NA	WG		NA	Good
Power backup (Liebert GXT4 UPS 120V)	1510100421AFBB3	WG	(✓)	757682	Good
Power backup (Liebert GXT4 UPS 120V)	1512800197AFBB3	WP	(✓)	757230	Good
Vizio Flat Screen monitor	LWZ2PPAQ3802232	WP	(✓)	756664	Good
Dell Optiplex	GME97Y88	WP	(✓)	755364	Good
Dell Optiplex	GMEP7Y99	WG	(✓)	755905	Good
Dell Optiplex	GMEP7Y110	O		756467	Good
Dell Optiplex	GME97Y87	WP	(✓)	755363	Good
Dell Optiplex	GMEP7Y100	WG	(✓)	755907	Good
Dell Optiplex	GMEP7Y108	O		756469	Good
Dell Optiplex	GMEP7Y111	O		756470	Good
Dell Optiplex	GMEP7Y109	O		756468	Good
Dell Optiplex	GMEP7Y107	O		755256	Good
Dell Optiplex	GMEP77101	O	(✓)	755906	Good
Panasonic Laptop (toughbook)	GMEPWL19	WP	(✓)	746356	Good
Dell Laptop	GME97ZL01	WP	(✓)	757095	Good

location code

WP = Winter Park

NR = Near Road

WG = Winegard

O=office

Orange County Air Monitoring Standards

TODAY'S DATE: 5/25/2016

	Vendor Name / Equipment	Model	S/N	Location	In Use (✓)	Date last Cert	Date next Cert DUE	APPROX # of days until due date	In house (IH), FDEP or Vendor
1	TEI 49i Primary Stnd	TEI 49iPS	0702620339	WP/BK		7/1/2015	7/1/2016	36	FDEP
2	TEI 49i Primary Stnd	TEI 49iPS	1336460151	WG/BK		12/7/2015	12/7/2016	192	FDEP
3	TEI 49i Primary Stnd	TEI 49iPS	1007441118	WP	(✓)	12/8/2015	12/8/2016	193	FDEP
4	TEI 49i Primary Stnd	TEI 49iPS	1151380003	WG	(✓)	6/12/2015	6/12/2016	17	FDEP
5	Aalborg Mass Flow Meter	GFM17	404207-1	WP	(✓)	9/17/2015	9/17/2016	112	FDEP
6	Bio Calibration Flow Meter	Definer 220-L	111132	WP	(✓)	7/28/2015	7/28/2016	63	FDEP
7	Bio Calibration Flow Meter	Definer 220-L	141461	WP		3/20/2015	3/20/2016	in progress	Shipped to DEP
8	Bio Calibration Flow Meter	Defender 530-H	137288	WP	(✓)	5/15/2015	5/15/2016	-10	FDEP
9	Bio Calibration Flow Meter	Defender 530-H	139494	WP		5/15/2015	5/15/2016	-10	FDEP
10	Teom Filter 061515-1	TEI	061515-1	WP	(✓)	6/15/2015	6/14/2016	19	FDEP
11	Manometer	Dwyer	N5OZ	WP	(✓)	12/28/2015	12/27/2016	212	FDEP
12	Manometer	Dwyer	N03AA0213007	WP	(✓)	2/25/2016	2/24/2017	269	FDEP
14	Digital Thermometer	Control Comp.	L616301	WP	(✓)	5/27/2015	5/26/2016	1	FDEP
15	Digital Thermometer	Control Comp.	130567028	WG	(✓)	9/15/2015	9/14/2016	109	FDEP
16	Volt Meter	Fluke #85	65560195	WP	(✓)	5/26/2015	5/25/2016	0	FDEP
17	Volt Meter - backup	Fluke #179	31360435	WP		7/28/2015	7/27/2016	62	FDEP
18	Barometer	Princo. Nova	N-701	WP	(✓)	10/2/2014	only if moved	NA	FDEP
19	R.M Young - WS Cal. Inst.	18802	CA 03115	WP	(✓)	6/30/2015	6/30/2016	35	Vendor
20	Vaisala	HM40	K4730049	WP	(✓)	12/17/2015	12/17/2016	202	Vendor
21	Vaisala backup	HM40	L1720058	WP		4/14/2015	4/14/2016	in progress	Shipped to Vendor
22	Chinook FTS (M)	Streamline Pro M	C150101	WP	(✓)	11/20/2015	11/20/2016	175	Vendor
23	Chinook FTS (S)	Streamline Pro S	C150102	WP	(✓)	2/18/2016	2/17/2017	262	Vendor
24	Barometer	Taylor	B-9	WP	(✓)	10/27/2015	4/27/2016	-28	IH
25	Shelter Temperature	SX-150	117	WP	(✓)	4/21/2015	4/21/2016	-34	IH
26	Shelter Temperature	SX-150	119	WG	(✓)	2/9/2016	2/9/2017	254	IH
27	Clock	Control Comp.	TC-01	WP	(✓)	2/23/2016	8/23/2016	88	IH
28	Clock	Control Comp.	TC-02	WG	(✓)	2/23/2016	8/23/2016	88	IH
29	Clock	Control Comp.	TC-03	NR		2/23/2016	8/23/2016	88	IH
30	Clock	Control Comp.	TC-05	McCrory	(✓)	2/23/2016	8/23/2016	88	IH

note: we need to discontinue all mercury units SOON!

Palm Beach County Inventory

Asset #	Manufacturer	Description	Adq. Date	Serial #	Cond	Cost
F07265000000000	Andersen Sampler, Inc	AIR SAMPLER,MDL.PM-10	04/28/89	68-13	Poor	$2,858.95
F07435000000000	Andersen Sampler, Inc	SAUV-16H HIGH VOLUME AIR SAMPL (HEAD)	05/17/89	10-16	Poor	$2,858.75
G01788000000000	Tisch Environmental, Inc	SAMPLER SYSTEM, PUF GPS-1	01/22/91	13905	Poor	$1,925.00
G09062000000000	Entech Instrument	ORG.COMPOUND CANISTER 87-200	04/04/91	391-265	Poor	$6,825.00
J08043000000000	Thermo Environmental	ZERO AIR SUPPLY MDL 111	10/10/91	111-34901-248	Fair	$2,783.50
K02660000000000	Bios International	CALIBRATOR KIT W/CELL&PRINTER	04/07/93	B4702001144	Fair	$2,321.15
101344290000000	Entech Instrument, Inc.	WEEKLY TIMER MODULE	10/01/01	160	Poor	$1,150.00
101350090000000	BGI Inc	PUMP PZM-200 SAMPLING SYSTEM	10/16/00	1662	Poor	$8,539.03
101350160000000	Sartorius	ANALYTICAL FILTER WEIGHT BALNC	09/28/00	12008133	Fair	$4,459.00
101358770000000	Thermo Environmental	TEC0111-001 ZERO AIR SUPPLY	11/02/98	11161759-333	Fair	$3,990.00
101358780000000	Thermo Environmental	TECO 111-001 ZERO AIR SUPPLY	11/02/98	11161757-333	Fair	$3,990.00
101439180000000	Thermo Environmental	SQUENTIAL SAMPLER 2025	02/05/03	2025B215800204	Poor	$1,000.00
101553730000000	Thermo Environmental	CORRELATION CARBON MONOXIDE ANALYZER, GAS FILTER	01/08/04	335203744	Poor	$8,559.00
101553750000000	Thermo Environmental	PULSED FLUORESCENCE AMBIENT SULFUR DIOXIDE ANALYZER	01/08/04	0335003719	Poor	$8,460.00
101612210000000	Agilaire	DATA LOGGER, ESC MODEL 8832 AMBIENT	06/27/05	A0633	Fair	$5,280.00
101612220000000	Agilaire	DATA LOGGER, ESC MODEL 8832 AMBIENT	06/27/05	A1030	Fair	$5,280.00
101612230000000	Agilaire	DATA LOGGER, ESC MODEL 8832 AMBIENT	06/27/05	A1028	Fair	$5,280.00
101612240000000	Agilaire	DATA LOGGER, ESC MODEL 8832 AMBIENT	06/27/05	A1031	Fair	$5,280.00
101612260000000	Thermo Environmental	TEC0111-001 ZERO AIR SUPPLY, Compressor/Pump	06/27/05	0517912030	Fair	$2,970.00
101612270000000	Thermo Environmental	TEC0111-001 ZERO AIR SUPPLY	06/27/05		Fair	$1,188.00
101612440000000	Thermo Environmental	PARTISOL PLUS PM 2.5	01/02/07	99-008806	Good	$12,840.00
101612830000000	Thermo Environmental	49I OV PHOTOMETRIC OZONE ANALYZER	11/16/05	0601213850	Good	$6,673.50
101612840000000	Thermo Environmental	42I CHEMILUMINSCENT NOX ANALYZER	11/16/05	0601213919	Fair	$9,733.50
101612860000000	Met One Instrument	MONITOR, BETA ATTENTUATION W/POWER SUPPLY & ACCESSORIES	11/16/06	E5632	Poor	$15,950.00
101641040000000	Agilaire	AMBIENT DATA LOGGER ESC, MODEL 8832	11/28/05	A1201	Good	$6,020.00
101641050000000	Bios International Corporat	LOW FLOW 5-500 SCCM	11/30/05	105982	Good	$4,000.00
101641060000000	Bios International Corporat	HIGH FLOW 500-50,000	11/30/05	106379	Good	$4,000.00
101641080000000	Environics	MULTI-GAS CALIBRATION SYSTEM	12/06/05	3702	Good	$8,415.00
101641690000000	Environics	CALIBRATION SYSTEM 6100	09/12/06	3830	Good	$8,415.00
101679750000000	Thermo Environmental	UV PHOTOMETRIC OZONE ANALYZER	04/11/07	0711721591	Good	$6,777.00
101679900000000	Thermo Environmental	GAS FILTER CORELATION CO ANALYZER MEASUREMENT	01/26/07	0703320497	Good	$9,085.50
101679960000000	Environics	CALIBRATION SYSTEM SERIES 6100	12/04/06	3885	Good	$8,415.00
101679970000000	Teledyne/API	TELEDYNE-API MODEL 703E UV PHOTOMETRIC MONITOR	10/31/06	0058	Fair	$8,550.00
101723940000000	Met One Instrument	BETA ALLENUATION MASS MONITOR, BAM1020 2.3FEM	10/01/07	06214	Good	$21,970.00
101723950000000	Bios International Corporat	DEFINER 220 HIGH FLOW; RANGE:300-30,000 SCCM	09/30/07	112349	Poor	$2,000.00
101723960000000	Thermo Environmental	SULFER DIOXIDE ANALYZER, 43I PULSED	10/08/07	CM07350001	Fair	$9,775.50
101747430000000	Thermo Environmental	PARTIED PLUS 2025 SEQUENLIAL AIR SAMPLER	06/16/08	2025B2221502805	Good	$12,464.95
101747450000000	Thermo Environmental	421I CHEMILUMINE NO-NO2 NOX ANALYZER	05/01/08	0816130476	Fair	$10,706.50
101747580000000	Agilaire	DATA SYSTEM CONTROLLER, AMBIENT ESC MODEL 8832	09/29/08	A2821K	Good	$6,865.00
101759250000000	Thermo Environmental	UV PHOTOMETIC OZONE (03) PRIMARY SOURCE CALIBRATOR	02/23/09	0906335234	Good	$10,165.00
101759260000000	Met One Instrument	BETA-ATTENTUATION MASS MONITOR,POWER SUPPLY	02/23/09	H8630	Good	$14,300.00
101759340000000	Thermo Environmental	PHOTOMELRIC OZONE ANALYZER, 491I UV	04/06/09	0908635705	Good	$7,533.50
101971800000000	Dell	SERVER, DELL POWEREDGE T150 II	08/13/15		Good	$1,692.92
101826130000000	Met One Instrument	BETA ATTENUALION MASS MONITOR W/POWER	12/09/10	K18547	Good	$12,452.60
101826150000000	Dell	LAPTOP, DELL LATITUDE E6400 XFR	11/17/10	GJL8XL1	Good	$4,431.00
101871770000000	Teledyne/API	NOX ANALYZER	12/02/11	205	Good	$10,695.00
101887320000000	Environics	OZONE TRANSFER STANDARD SERIES 6103	11/13/09	4595	Good	$7,824.00
101887330000000	Environics	OZONE TRANSFER STANDARD SERIES 6103	11/13/09	4594	Good	$7,824.00
101920710000000	Thermo Environmental	PARTISOL 2025i SEQUENTIAL AIR SMAPLER	04/29/13	2025i-2036671303	Good	$13,200.50
101971560000000	Teledyne/API	NOX ANALYZER	02/27/15	8181	Good	$12,215.80
101971550000000	Thermo Environmental	PHOTOMELRIC OZONE ANALYZER, 491I UV	02/17/15		Good	$10,102.62

Pinellas County
2016 Equipment List

Equipment Type	Model	Manufacturer	Age	Condition	Est Repl Cost	Year of Repl.	Comments/ location
Data Logger	8872	Agilaire	2	Good	$6,800	2025	Oakwood site
Data Logger	8872	Agilaire	2	Good	$6,800	2025	E Lake site
Data Logger	8872	Agilaire	2	Good	$6,800	2025	Clearwater site
Data Logger	8872	Agilaire	2	Good	$6,800	2025	Derby lane site
Data Logger	8872	Agilaire	2	Good	$6,800	2025	Gateway site
Data Logger	8872	Agilaire	2	Good	$6,800	2025	Azalea site
Data Logger	8872	Agilaire	1	Good	$6,800	2025	Sawgrass Park
Data Logger	8816	ESC	13	Good			For Data Back-up/ storage
Data Logger	8816	ESC	13	Good			For Data Back-up/ storage
Data Logger	8816	ESC	12	Good			For Data Back-up / storage
CO Analyzer	48-C	Thermo Env	12	Fair	$8,600	2016	Gateway/replace yr 2016
O3 Analyzer	400E	API/Teledyne	5	Good	$7,500	2020	E Lake site
O3 Analyzer	400E	API/Teledyne	5	Good	$7,500	2020	Clearwater site
O3 Analyzer	49-I	Thermo Env	7	Good	$8,000	2019	Azalea site
O3 Analyzer	49-C	Thermo Env	14	Fair	$12,000	N/A	Back-up/storage
NOX Analyzer	42-I	Thermo Env	7	Good	$9,700	2019	Azalea site
Shelter	N/A	N/A	31	Fair	$7,500	?	CW site, replacem.depends on City of Cl.
Shelter	N/A	Adv. Modular	26	Fair	$7,500	NA	Gateway
O3 Prim. Std	703E	API/Teledyne	6	Good	$11,000	2020	Azalea site
O3 Prim. Std	703E	API/Teledyne	2	Good	$11,000	2024	Clearwater site
O3 Prim. Std	703E	API/Teledyne	2	Good	$11,000	2024	E Lake site
Calibrator	146-C	Thermo Env	12	Fair	$9,500	2015	Back-up/storage
DAHS CPU	na	ASUS	2	Good	$800	2019	Air Vision Computer
Mobile Shelter	8 X 12	Coastal	18	Good	$10,000	2018	Air Toxics Shelter(at Derby)
Dial-A-Volt	DAS47AL	General Resistar	16	Good	$1,200	2018	DOC
Shelter	na	na	1	Good	$27,000	na	Sawgrass Park
Wind Tower	10 Meter	Aluma Tower	1	Good	$4,100	2023	Sawgrass Park
CO Analyzer	300 U	API/Teledyne	1	Good	$13,600	2023	Sawgrass Park
zero air system	70H	API/Teledyne	1	Good	$7,500	2023	Sawgrass Park
Calibrator	701	API/Teledyne	1	Good	$23,500	2023	Sawgrass Park
NO2 analyzer	500T U	API/Teledyne	1	Good	$27,500	2023	Sawgrass Park
Aethalometer	633	Teldyne	1	Good	$30,400	2023	Sawgrass Park

Pinellas County
2016 Equipment List

Equipment Type	Model	Manufacturer	Age	Condition	Est Repl Cost	Year of Repl.	Comments /Location

PM-10 Sampler	G-1200	Gen Metals	27	Fair	$7,500	N/A	Back-up
PM-10 Sampler	G-1200	Gen Metals	27	Good	$7,500	2018	Woodlawn site
PM-10 Sampler	G-1200	Gen Metals	27	Good	$7,500	2018	Azalea Park
PM-10 Sampler	G-1200	Gen Metals	23	Good	$7,500	2018	East Lake Site
PM-10 Sampler	G-1200	Gen Metals	23	Good	$7,500	2018	Motorpool
PM-10 Sampler	G-1200	Gen Metals	23	Good	$7,500	2018	Motorpool
PM-10 Sampler	G-1200	Gen Metals	23	Good	$7,500	2018	Skyview
SO2 Analyzer	43-C	Thermo Env	15	Fair	$9,500	2016	Derby Lane site
SO2 Analyzer	43-C	Thermo Env	14	Fair	$9,500	2016	Oakwood site
Gas Calibrator	6100	Environics	3	Good	$9,500	2025	Oakwood site
Gas Calibrator	6103	Environics	1	Good	$11,000	2015	Derby Lane site
Gas Calibrator	6100	Environics	1	Good	$11,000	2018	Sawgrass Park
Bubble Meter	HBM-1A	Hastings	33	Good	$1,500	N/A	storage
Mass Flow Meter	HBM-1A	Hastings	33	Fair	$1,500	N/A	storage
Mass Flow Meter	40/HFM-200	Hastings	17	Fair	$2,000	N/A	storage
DryCal	DCLT 500	Bios	17	Good	$1,100	2017	Lab
DryCal	DCLT 20K	Bios	8	Good	$1,100	2017	Lab
Shelter	10 x 16	GE Capitol	13	Good	$1,100	2020	East Lake Site
Shelter	10 x 12	Robin Builders	17	Good	$9,000	2020	Skyview
Shelter	10 x 16	Robin Builders	17	Fair	$12,000	2020	Azalea Park
Shelter	N/A	N/A	28	Fair	$7,500	2020	Tarpon Springs (Oakwood)
Analytical Balan.	AC-120-SI	Sartorius	23	Fair	N/A	N/A	Back-up
Analytical Balan.	MSE-124S	Sartorius	6	Good	$3,500	2020	Lab
Mercury Baro.	N/A	Princo	40	Good	$500	2017	DOC
Drying Oven	25EG	Scientific Prod.	17	Good	$800	2018	DOC
Mass Flow Meter	NALL	Hastings	25	Good	$2,500	2017	DOC

Pinellas County

2016 Equipment List

Equipment Type	Model	Manufacturer	Age	Condition	Est Repl Cost	Year of Repl.	Comments/ Location
Data Logger	8816	ESC	19	Good	na	NA	Back-up/ storage
Data Logger	8816	ESC	18	Good	na	NA	Back-up/storage
Data Logger	8816	ESC	19	Good	na	NA	Back-up/storage
Wind System	5305	RM Young	2	Good	$1,100	2017	Elake
Wind System	5305	RM Young	5	Good	$1,100	2017	Azalea Site
Mass Flow Meter	NALL	Hastings	23	Good	$2,500	NA	Spare (at Fleet)
Shelter	N/A	Adv. Modular	26	Fair	$7,500	NA	Spare (at Fleet)

Wind Speed Cal.	18801	RM Young	18	Good	$1,000	NA	back up
Wind Tower	10 Meter	Aluma Tower	18	Good	$2,000	2022	Azalea Site
Wind Tower	10 Meter	Aluma Tower	14	Good	$2,000	2026	Installed at Skyview- 12/04
Wind Tower	10 Meter	Aluma Tower	26	Fair	$2,000	2018	Elake

Pinellas County **103 Equipment & NATTS**

2016 Equipment List

Equipment Type	Model	Manufacturer	Age	Condition	Est Repl Cost	Year of Repl.	Comments/location
Data Logger	8872	Agilaire	1	Good	$6,800	2025	
PM-2.5 Sequential Sampler	2025	R & P	8	Good	$12,000	2017	AZ Official
PM-2.5 Sequential Sampler	2025	R & P	7	Good	$12,500	2019	AZ Colocated
PM-2.5 Sequential Sampler	2025	R & P	7	Good	$12,500	2019	Sandy Lane
PM-2.5 Sequential Sampler	2025	R & P	17	Fair	$12,000	N/A	Back-up
Computer - Notebook	Eee PC 900HA	ASUS	7	Good	$300	2016	operator
PM-2.5 Continuous Monitor	1400 a/b	TECO (R & P)	5	Good	$18,000	2020	
PM-2.5 Continuous Monitor	1400 a/b	R & P	15	Fair	$18,000	N/A	Back-up
PM-2.5 Continuous Monitor	1400 a/b	R & P	8	Fair	$18,000	2016	Budgeded for fy 2016
PM-2.5 Aethalometer	633	TAPI	2	Good	$26,800	2024	NATTS
PUF Sampler	TE 100bl	Tisch	8	Good	$4,000	na	NATTS
PM-10 Sampler (metals)	G-1200	Gen Metals	23	Good	$4,500	2018	NATTS

Sarasota Inventory

Site	Manufacturer	Model	Pollutant	Serial #	Date Purchased	Condition	Status	Anticipated Replacement Date
Paw Park	Thermo	49i	Ozone	CM09190034	2009	Good		2019
Paw Park	Thermo	49i-PS	Ozone	0916736286	2009	Good		2019
Paw Park	Thermo	TEOM 1405	PM10	1405A233811512	2016	Good		2026
Paw Park	Teledyne	T700	NOx	670	2013	Good		2023
Paw Park	Teledyne	T200	NOx	776	2013	Good		2023
Paw Park	Teledyne	T701	Zero Air	64	2014	Good		2024
Paw Park	Agilaire	8872	Data Logger	0335	2014	Good		2024
Lido	Teledyne	400e	Ozone	2529	2010	Good	back-up	2020
Lido	Thermo	49c	Ozone	49C-77958-387	1998	Fair		2017
Lido	Teledyne	703e	Ozone	276	2010	Good		2020
Lido	Agilaire	8872	Data Logger	0334	2014	Good		2024
Jackson	Thermo	TEOM 1405	PM2.5	1405A202450809	2008	Good		2018
Jackson	Thermo	49i	Ozone	1426962861	2014	Good		2024
Jackson	Thermo	49i-PS	Ozone	1426962860	2014	Good		2024
Jackson	Agilaire	8872	Data Logger	0184	2014	Good		2024
Lido	RM Young	05103VP	Wind	WM80811		Fair		N/A
Paw Park	RM Young	05103VP	Wind	WM58043		Fair		N/A
Jackson	RM Young	05103VP	Wind	WM58190		Fair		N/A
Bee Ridge	R&P	2025i	PM2.5	2025I207091410	2015	Good		2025
Bee Ridge	R&P	2025i	PM2.5	2025I205681402	2014	Good		2024
Bee Ridge	R&P	TEOM 1400	PM2.5	140AB267800706	2007	Good		2017
Office	Thermo	111	Zero Air	0427408888	2004	Fair		N/A
Office	Thermo	111	Zero Air	0326802150	2004	Fair	back-up	N/A
Office	ESC	8816	Data Logger	5072	2004	Good	back-up	N/A
Office	ESC	8816	Data Logger	2004A	2004	Good	back-up	N/A
Office	ESC	8816	Data Logger	2004B	2004	Good	back-up	N/A
Office	ESC	8816	Data Logger	2004C	2004	Good	back-up	N/A
Office	Thermo	49c-PS	Ozone	49CPS-77959-387	1998	Fair	back-up	N/A
Office	Thermo	49c-PS	Ozone	0427408886	1998	Fair	back-up	N/A

Updated 5/25/2016