



# Appendix A: 2014 Air Monitoring Sites

New Jersey Department of Environmental Protection

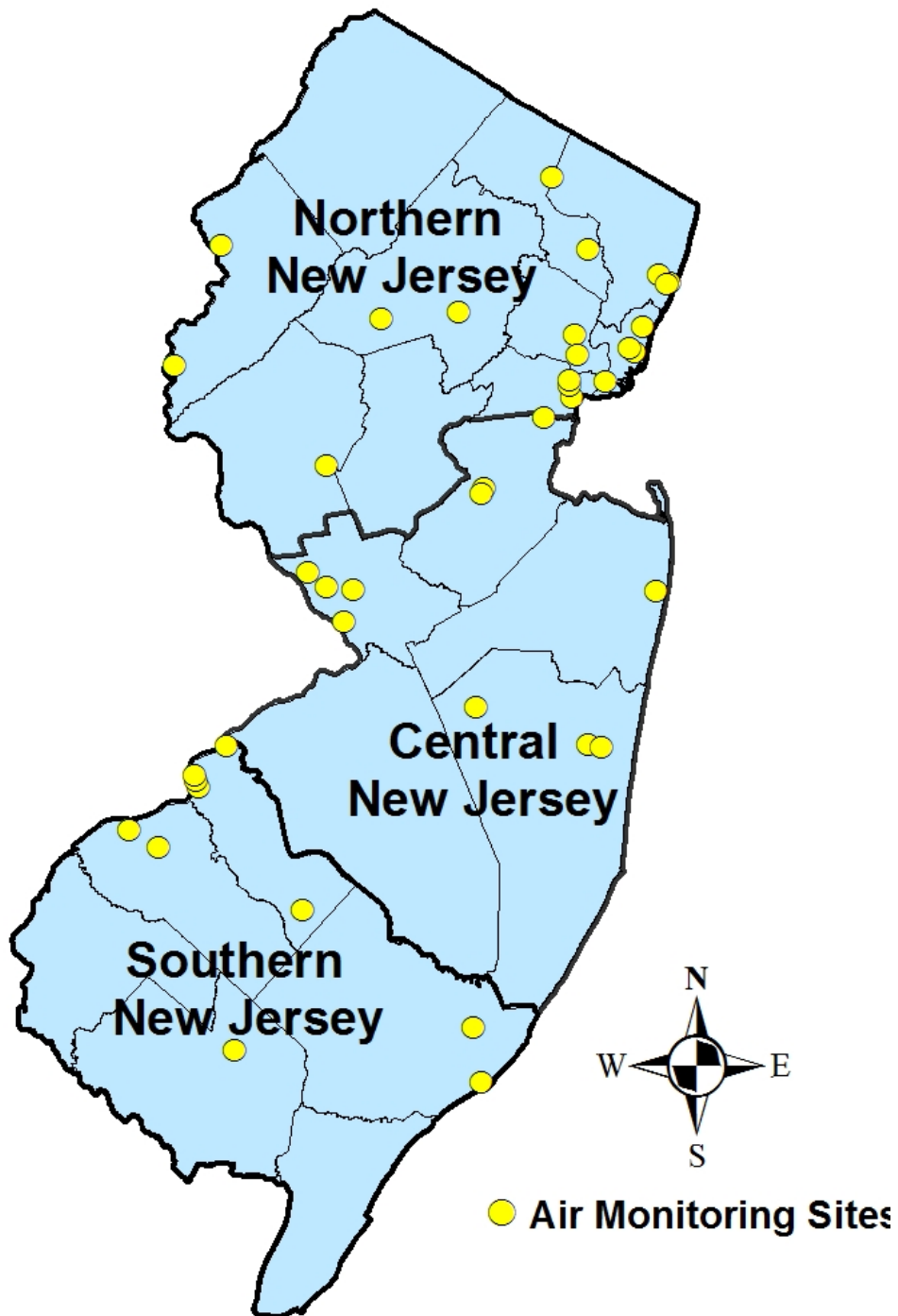
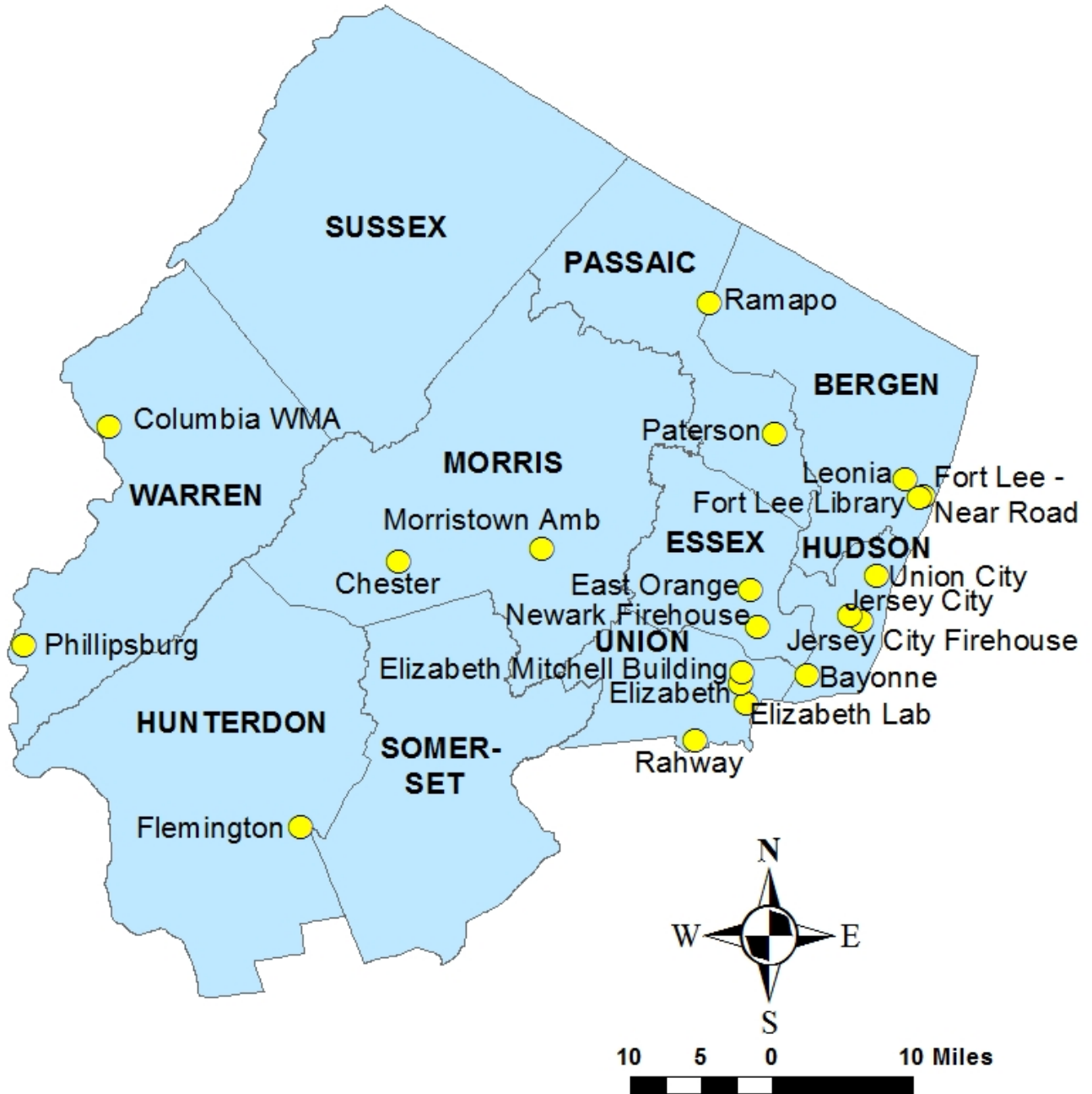


FIGURE 1  
NORTHERN NEW JERSEY  
AIR MONITORING SITES

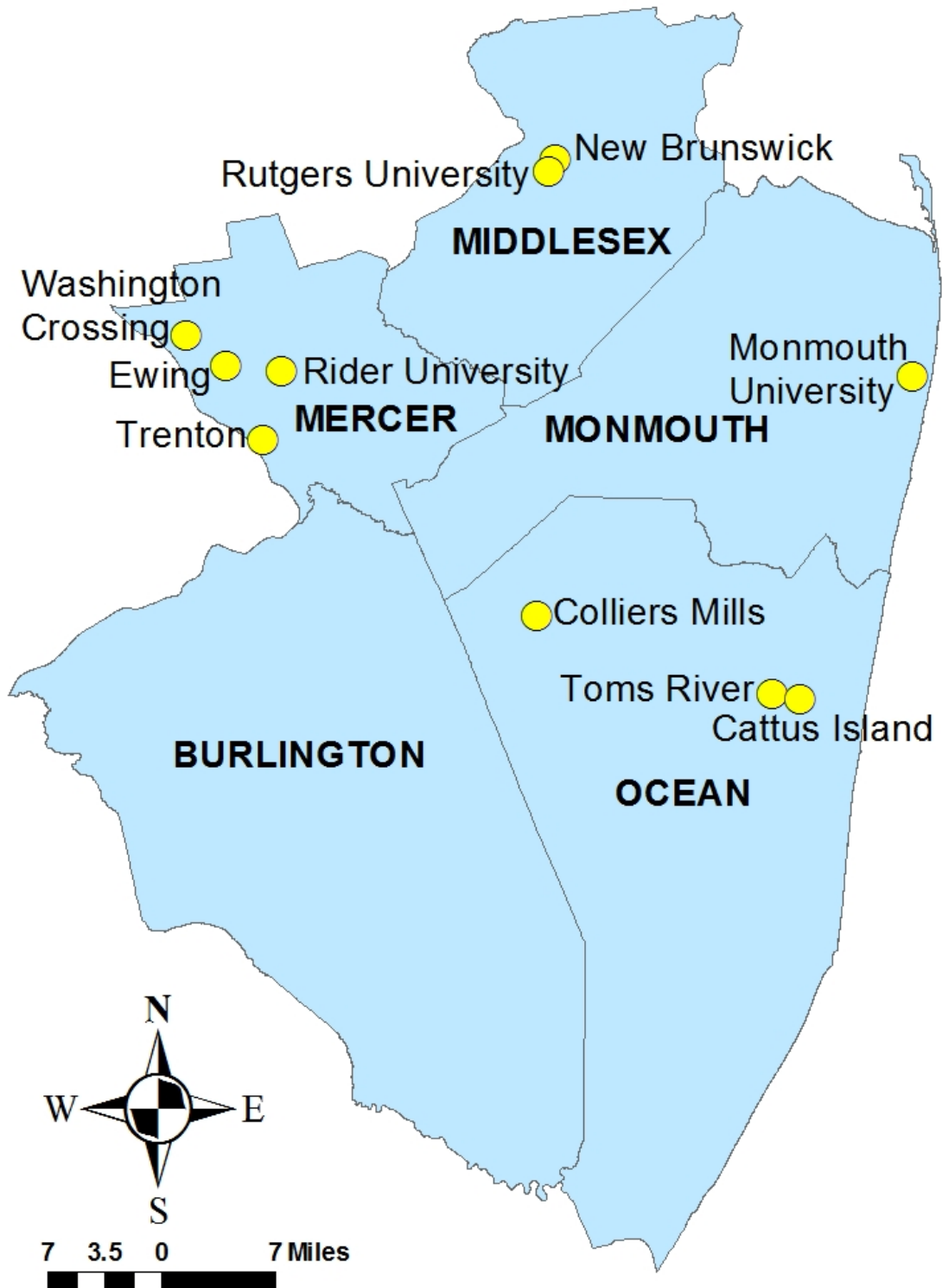


**Table 1  
Northern New Jersey Air Monitoring Sites**

| County    | Monitoring Site         | AIRS Code   | Parameter(s)<br>Measured <sup>1</sup>  | Coordinates<br>(Decimal degrees) |             | Address   |
|-----------|-------------------------|-------------|--|----------------------------------|-------------|---|
|           |                         |             |  | Latitude                         | Longitude   |   |
| BERGEN    | Fort Lee Library        | 34 003 0003 | PM <sub>2.5</sub>  | 40.852256                        | - 73.973314 | Fort Lee Public Library, 320 Main Street                      |
|           | Fort Lee Near Road      | 34 003 0010 | CO, NO <sub>x</sub> , Beta   | 40.85355                         | -73.9661    | 2047 Central Ave  |
|           | Leonia                  | 34 003 0006 | O <sub>3</sub>   | 40.870436                        | -73.991994  | Overpeck Park, 40 Fort Lee Road                               |
| ESSEX     | East Orange             | 34 013 1003 | CO, NO <sub>x</sub> , MET  | 40.757501                        | - 74.200500 | Engine No. 2, Main Street and Greenwood Avenue                |
|           | Newark Firehouse        | 34 013 0003 | CO, O <sub>3</sub> , SO <sub>2</sub> , PM <sub>2.5</sub> , PM <sub>2.5</sub> Spec, MET, NO <sub>y</sub> , NO <sub>x</sub> , BTEX, Pb, Beta | 40.720989                        | -74.192892  | 360 Clinton Avenue  |
| HUDSON    | Bayonne                 | 34 017 0006 | NO <sub>x</sub> , O <sub>3</sub> , SO <sub>2</sub> , BTEX, Black Carbon, MET   | 40.670250                        | - 74.126081 | Veterans Park on Newark Bay, 25th St. near Park Road          |
|           | Jersey City             | 34 017 1002 | CO, SO <sub>2</sub> , SS   | 40.731645                        | - 74.066308 | 2828 Kennedy Boulevard  |
|           | Jersey City Firehouse   | 34 017 1003 | PM <sub>2.5</sub> , PM <sub>10</sub> , TEOM  | 40.725454                        | - 74.052290 | Consolidated Firehouse, 355 Newark Avenue                     |
|           | Union City              | 34 017 2002 | PM <sub>2.5</sub>  | 40.772793                        | -74.031718  | Health Department, 714 , 31 <sup>st</sup> Street              |
| HUNTERDON | Flemington              | 34 019 0001 | O <sub>3</sub> , MET, TEOM   | 40.515262                        | -74.806671  | Raritan Twp. Municipal Utilities Authority, 365 Old York Road |
| MORRIS    | Chester                 | 34 027 3001 | NO <sub>x</sub> , O <sub>3</sub> , SO <sub>2</sub> , PM <sub>2.5</sub> , TOXICS, Hg, PM <sub>2.5</sub> Spec, MET                           | 40.787628                        | - 74.676301 | Bldg. #1, Department of Public Works, (DPW), Route 513        |
|           | Morristown Amb Squad    | 34 027 0004 | PM <sub>2.5</sub>  | 40.801211                        | - 74.483433 | 16 Early Street   |
| PASSAIC   | Paterson                | 34 031 0005 | PM <sub>2.5</sub>  | 40.918381                        | -74.168092  | Health Department, 176 Broadway Avenue                        |
|           | Ramapo                  | 34 031 5001 | O <sub>3</sub>   | 41.058617                        | - 74.255544 | Ramapo Mountain State Forest, Access Road, off Skyline Drive  |
| UNION     | Elizabeth               | 34 039 0003 | CO, SO <sub>2</sub> , SS   | 40.662389                        | - 74.214817 | 7 Broad Street  |
|           | Elizabeth Lab           | 34 039 0004 | CO, NO <sub>x</sub> , SO <sub>2</sub> , SS, MET, PM <sub>2.5</sub> , TOXICS, Hg, PM <sub>2.5</sub> Spec, BTEX, Black Carbon, Beta          | 40.641440                        | - 74.208365 | Interchange 13, New Jersey Turnpike                           |
|           | Elizabeth Mitchell Bldg | 34 039 0006 | PM <sub>2.5</sub>  | 40.673406                        | -74.213889  | Mitchell Bldg., 500 North Broad Street                        |
|           | Rahway                  | 34 039 2003 | PM <sub>2.5</sub> , TEOM   | 40.603943                        | - 74.276174 | Fire Dept. Bldg., 1300 Main Street                            |
| WARREN    | Columbia WMA            | 34 041 0007 | NO <sub>x</sub> , O <sub>3</sub> , SO <sub>2</sub> , PM <sub>2.5</sub> , MET, Beta   | 40.924580                        | -75.067815  | Columbia Wildlife Management Area, Delaware Road              |
|           | Phillipsburg            | 34 041 0006 | PM <sub>2.5</sub>  | 40.699207                        | - 75.180525 | Municipal Bldg., 675 Corliss Avenue                           |

<sup>1</sup> See Table 4, Parameter Codes.

FIGURE 2  
CENTRAL NEW JERSEY  
AIR MONITORING SITES



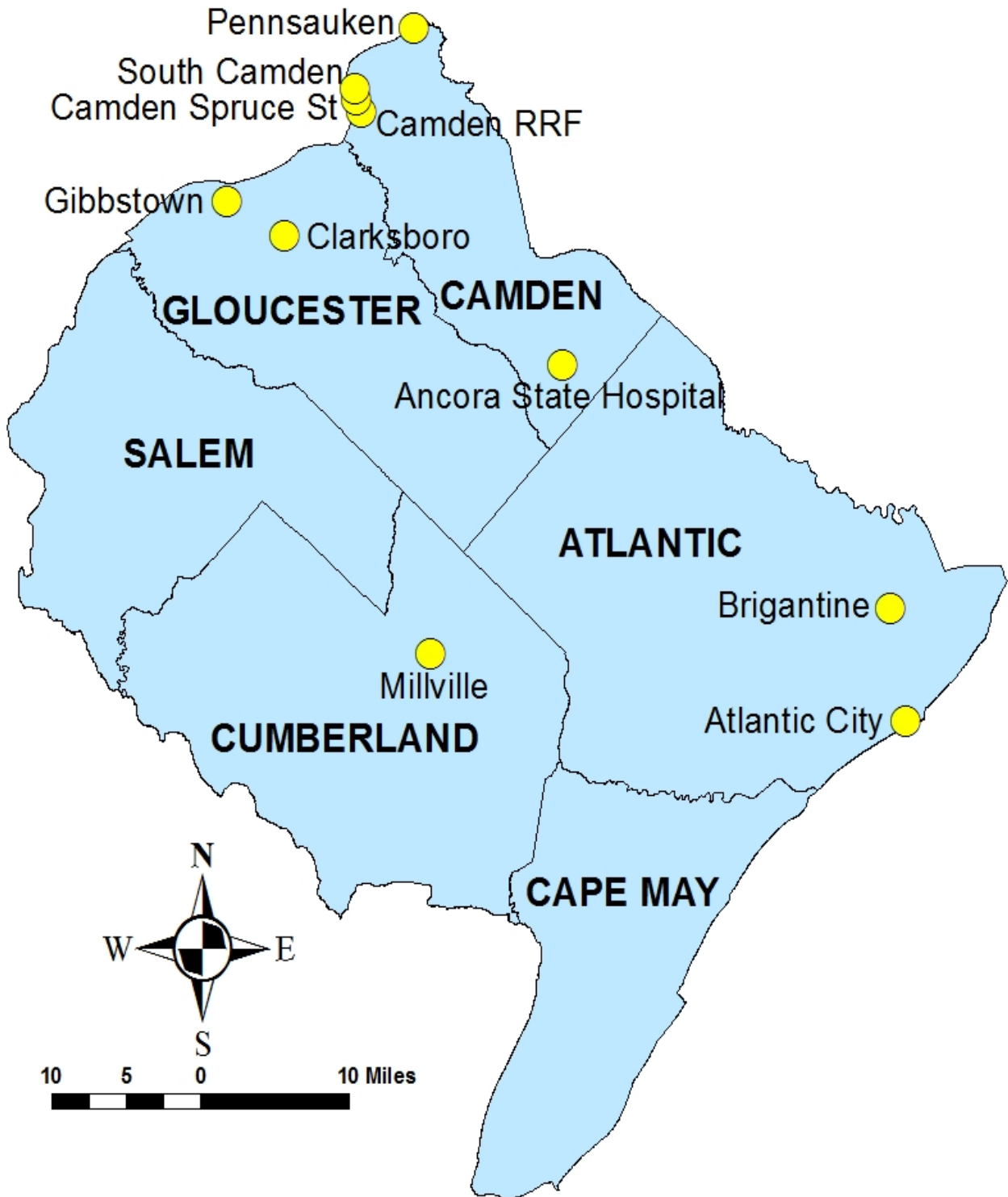
**Table 2  
Central New Jersey Air Monitoring Sites**

| County           | Monitoring Site     | AIRS Code   | Parameter(s)<br>Measured <sup>1</sup>                           | Coordinates<br>(Decimal degrees) |             | Address  |
|------------------|---------------------|-------------|---|----------------------------------|-------------|--|
|                  |                     |             |   | Latitude                         | Longitude   |  |
| <b>MERCER</b>    | Ewing               | 34 021 0010 | TEOM  | 40.287530                        | -74.807770  | Bureau of Air Monitoring Technical Center, 380 Scotch Road |
|                  | Rider University    | 34 021 0005 | O <sub>3</sub> , MET  | 40.283092                        | -74.742644  | Athletic Fields, Route 206 South                           |
|                  | Trenton             | 34 021 0008 | PM <sub>2.5</sub>   | 40.222411                        | -74.763167  | Trenton Library, 120 Academy Street                        |
|                  | Washington Crossing | 34 021 8001 | PM <sub>2.5</sub> , ACID  | 40.312390                        | -74.872660  | Washington Crossing State Park, near 66 Church Road        |
| <b>MIDDLESEX</b> | New Brunswick       | 34 023 0006 | PM <sub>2.5</sub> , Hg, Beta,<br>PM <sub>2.5</sub> Spec, TOXICS | 40.472825                        | - 74.422403 | Cook College, Log Cabin Road near Horticulture Lab         |
|                  | Rutgers University  | 34 023 0011 | NO <sub>x</sub> , O <sub>3</sub> , MET <sup>2</sup> ,<br>PAMS   | 40.462182                        | - 74.429439 | Horticultural Farm #3, off Ryder's Lane                    |
| <b>MONMOUTH</b>  | Monmouth University | 34 025 0005 | O <sub>3</sub>  | 40.277647                        | - 74.005100 | Edison Science Bldg., 400 Cedar Avenue                     |
| <b>OCEAN</b>     | Cattus Island       | N/A         | ACID  | 39.989400                        | -74.134400  | 1170 Cattus Island Blvd, Toms River                        |
|                  | Colliers Mills      | 34 029 0006 | O <sub>3</sub>  | 40.064830                        | -74.444050  | Colliers Mills Wildlife Management Area                    |
|                  | Toms River          | 34 029 2002 | PM <sub>2.5</sub>   | 39.994908                        | -74.170447  | Hooper Avenue Elementary School, 1517 Hooper Avenue        |

<sup>1</sup> See Table 4, Parameter Codes.

<sup>2</sup> Meteorological measurements at the site are collected by Rutgers University.

FIGURE 3  
SOUTHERN NEW JERSEY  
AIR MONITORING SITES



**Table 3  
Southern New Jersey Air Monitoring Sites**

| County     | Monitoring Site       | AIRS Code   | Parameter(s)<br>Measured <sup>1</sup>   | Coordinates<br>(Decimal degrees) |             | Address  |
|------------|-----------------------|-------------|---|----------------------------------|-------------|--|
|            |                       |             |   | Latitude                         | Longitude   |  |
| ATLANTIC   | Atlantic City         | 34 001 1006 | PM <sub>2.5</sub>   | 39.363260                        | -74.431000  | 1535 Bacharach Boulevard   |
|            | Brigantine            | 34 001 0006 | Visibility, O <sub>3</sub> , SO <sub>2</sub> , Beta,<br>PM <sub>2.5</sub> , Hg, ACID <sup>3</sup>   | 39.464872                        | -74.448736  | Edwin B. Forsythe National Wildlife Refuge Visitor<br>Center, Great Creek Road |
| CAMDEN     | Ancora State Hospital | 34 007 1001 | O <sub>3</sub>  | 39.684250                        | - 74.861491 | Ancora State Hospital, 202 Spring Garden Road                                  |
|            | South Camden          | 34 007 0010 | TEOM  | 39.923969                        | -75.122317  | Camden County Municipal Utilities Authority, 1645 Ferry<br>Avenue              |
|            | Camden RRF            | 34 007 0009 | PM <sub>10</sub>  | 39.912431                        | - 75.116864 | Camden RRF, Morgan Blvd. & I-676 entrance ramp                                 |
|            | Camden Spruce Street  | 34 007 0002 | CO, NO <sub>x</sub> , O <sub>3</sub> , SO <sub>2</sub> , PM <sub>2.5</sub><br>PM <sub>2.5</sub> Spec, BTEX, Black<br>Carbon, TOXICS, MET,<br>Beta | 39.934446                        | -75.125291  | Spruce St. near Locust St.   |
|            | Pennsauken            | 34 007 1007 | PM <sub>2.5</sub>   | 39.989036                        | -75.050008  | Morris-Delair Water Treatment Plant Off Griffith Morgan<br>Lane                |
| CUMBERLAND | Millville             | 34 011 0007 | NO <sub>x</sub> , O <sub>3</sub> , Beta   | 39.422273                        | - 75.025204 | Lincoln Avenue & Route 55. Northeast of Millville                              |
| GLOUCESTER | Clarksboro            | 34 015 0002 | O <sub>3</sub>  | 39.800339                        | -75.212119  | Clarksboro Shady Rest Home, Shady Lane and County<br>House Road                |
|            | Gibbstown             | 34 015 0004 | PM <sub>2.5</sub>   | 39.830806                        | -75.284723  | Municipal Maintenance Yard, North School Street, North<br>of Morse Avenue      |

<sup>1</sup> See Table 4, Parameter Codes.

<sup>3</sup> The United States Fish and Wildlife Service, Air Quality Branch (USFWS-AQB) is responsible for sample collection for this parameter.

**Table 4  
Parameter Codes**

|                       |   |                             |  |
|-----------------------|---|-----------------------------|--|
| <b>ACID</b>           | Acid Deposition                                       | <b>O<sub>3</sub></b>        | Ozone  |
| <b>Black Carbon</b>   | Measured by Aethalometer                              | <b>PAMS</b>                 | Photochemical Assessment Monitoring Station measure for ozone precursors                               |
| <b>Beta</b>           | Real-Time PM <sub>2.5</sub> Analyzer                  | <b>PM<sub>10</sub></b>      | Coarse particles (10 Microns or less) collected by a Federal Reference Method PM <sub>10</sub> Sampler |
| <b>BTEX</b>           | Measured Benzene, Toluene, Ethyl benzene, and Xylenes | <b>PM<sub>2.5</sub>Spec</b> | Speciated (2.5 Microns or Less) fine particles   |
| <b>CO</b>             | Carbon Monoxide                                       | <b>PM<sub>2.5</sub></b>     | Fine Particles (2.5 Microns or less) collected by a Federal Reference Method PM <sub>2.5</sub> Sampler |
| <b>Hg</b>             | Mercury   | <b>TEOM</b>                 | Real-Time PM <sub>2.5</sub> Analyzer   |
| <b>Pb</b>             | Lead  | <b>SO<sub>2</sub></b>       | Sulfur Dioxide   |
| <b>MET</b>            | Meteorological Parameters                             | <b>SS</b>                   | Smoke Shade  |
| <b>NO<sub>x</sub></b> | Nitrogen Dioxide and Nitric Oxide                     | <b>TOXICS</b>               | Air Toxics   |
| <b>NO<sub>y</sub></b> | Total Reactive Oxides of Nitrogen                     | <b>Visibility</b>           | Measured by Nephelometer   |