

US EPA ARCHIVE DOCUMENT

# Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive, S.E., Suite 1152 East Tower, Atlanta, Georgia 30334-9000

Lonice C. Barrett, Commissioner

Harold F. Reheis, Director

Environmental Protection Division

404/656-4713

July 15, 2003

Mr. James I. Palmer, Jr.  
Regional Administrator  
U.S. EPA, Region 161 Forsyth Street, SW  
Atlanta, Georgia 30303-3104

Dear Mr. Palmer:

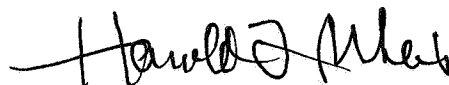
The United States Environmental Protection Agency (EPA) has promulgated a new 8-hour ozone National Ambient Air Quality Standard. Section 107(d)(1) of the Clean Air Act requires each State to submit to the EPA its recommended designation of each area of the State as attainment/unclassifiable or nonattainment under the standard. The Georgia Environmental Protection Division has developed recommended designations in accordance with EPA's memorandum dated March 28, 2000, "Boundary Guidance on Air Quality Designations for the 8-Hour Ozone National Ambient Air Quality Standard," as well as other, more recent guidance.

The attached table provides the Georgia EPD's recommendations for the designation status of each county in Georgia. It is recommended that 20 counties in metropolitan Atlanta and three counties outside metropolitan Atlanta be designated as nonattainment.

Modeling conducted by the EPA and Georgia Tech indicates that the Augusta and Macon areas should attain the 8-hour ozone standard after implementation of the regional nitrogen oxide emission reductions and new federal vehicle and fuel standards, without the need for additional local control measures. In light of this modeling we are recommending that only the counties in those areas having ozone monitors showing violations of the standard (Richmond and Bibb Counties) be designated nonattainment. In addition, a monitor located within a federal Class I area in Murray County has shown violation of the standard. In accordance with recent EPA proposed guidance regarding rural transport of ozone, we are recommending only that portion of Murray County comprising the Class I area be designated nonattainment.

Please contact Ron Methier at (404) 363-7016 should you have any questions regarding this matter.

Sincerely,



Harold F. Reheis  
Director

HFR:dks

Attachment

cc: Ron Methier, Chief  
Air Protection Branch

## RECOMMENDED DESIGNATION STATUS FOR GEORGIA COUNTIES

| County Name   | Designation   |
|---------------|---------------|
| Appling       | Attainment    |
| Atkinson      | Attainment    |
| Bacon         | Attainment    |
| Baker         | Attainment    |
| Baldwin       | Attainment    |
| Banks         | Attainment    |
| Barrow        | Nonattainment |
| Bartow        | Nonattainment |
| Ben Hill      | Attainment    |
| Berrien       | Attainment    |
| Bibb          | Nonattainment |
| Bleckley      | Attainment    |
| Brantley      | Attainment    |
| Brooks        | Attainment    |
| Bryan         | Attainment    |
| Bulloch       | Attainment    |
| Burke         | Attainment    |
| Butts         | Attainment    |
| Calhoun       | Attainment    |
| Camden        | Attainment    |
| Candler       | Attainment    |
| Carroll       | Nonattainment |
| Catoosa       | Attainment    |
| Charlton      | Attainment    |
| Chatham       | Attainment    |
| Chattahoochee | Attainment    |
| Chattooga     | Attainment    |
| Cherokee      | Nonattainment |
| Clarke        | Attainment    |
| Clay          | Attainment    |
| Clayton       | Nonattainment |
| Clinch        | Attainment    |
| Cobb          | Nonattainment |
| Coffee        | Attainment    |
| Colquitt      | Attainment    |
| Columbia      | Attainment    |
| Cook          | Attainment    |
| Coweta        | Nonattainment |
| Crawford      | Attainment    |
| Crisp         | Attainment    |
| Dade          | Attainment    |
| Dawson        | Attainment    |

## RECOMMENDED DESIGNATION STATUS FOR GEORGIA COUNTIES

| County Name | Designation   |
|-------------|---------------|
| Decatur     | Attainment    |
| DeKalb      | Nonattainment |
| Dodge       | Attainment    |
| Dooly       | Attainment    |
| Dougherty   | Attainment    |
| Douglas     | Nonattainment |
| Early       | Attainment    |
| Echols      | Attainment    |
| Effingham   | Attainment    |
| Elbert      | Attainment    |
| Emanuel     | Attainment    |
| Evans       | Attainment    |
| Fannin      | Attainment    |
| Fayette     | Nonattainment |
| Floyd       | Attainment    |
| Forsyth     | Nonattainment |
| Franklin    | Attainment    |
| Fulton      | Nonattainment |
| Gilmer      | Attainment    |
| Glascok     | Attainment    |
| Glynn       | Attainment    |
| Gordon      | Attainment    |
| Grady       | Attainment    |
| Greene      | Attainment    |
| Gwinnett    | Nonattainment |
| Habersham   | Attainment    |
| Hall        | Nonattainment |
| Hancock     | Attainment    |
| Haralson    | Attainment    |
| Harris      | Attainment    |
| Hart        | Attainment    |
| Heard       | Attainment    |
| Henry       | Nonattainment |
| Houston     | Attainment    |
| Irwin       | Attainment    |
| Jackson     | Attainment    |
| Jasper      | Attainment    |
| Jeff Davis  | Attainment    |
| Jefferson   | Attainment    |
| Jenkins     | Attainment    |
| Johnson     | Attainment    |
| Jones       | Attainment    |

## RECOMMENDED DESIGNATION STATUS FOR GEORGIA COUNTIES

| County Name | Designation   |
|-------------|---|
| Lamar       | Attainment  |
| Lanier      | Attainment  |
| Laurens     | Attainment  |
| Lee         | Attainment  |
| Liberty     | Attainment  |
| Lincoln     | Attainment  |
| Long        | Attainment  |
| Lowndes     | Attainment  |
| Lumpkin     | Attainment  |
| McDuffie    | Attainment  |
| McIntosh    | Attainment  |
| Macon       | Attainment  |
| Madison     | Attainment  |
| Marion      | Attainment  |
| Meriwether  | Attainment  |
| Miller      | Attainment  |
| Mitchell    | Attainment  |
| Monroe      | Attainment  |
| Montgomery  | Attainment  |
| Morgan      | Attainment  |
| Murray      | Attainment, except for that portion in the Class I area |
| Muscogee    | Attainment  |
| Newton      | Nonattainment   |
| Oconee      | Attainment  |
| Oglethorpe  | Attainment  |
| Paulding    | Nonattainment   |
| Peach       | Attainment  |
| Pickens     | Attainment  |
| Pierce      | Attainment  |
| Pike        | Attainment  |
| Polk        | Attainment  |
| Pulaski     | Attainment  |
| Putnam      | Attainment  |
| Quitman     | Attainment  |
| Rabun       | Attainment  |
| Randolph    | Attainment  |
| Richmond    | Nonattainment   |
| Rockdale    | Nonattainment   |
| Schley      | Attainment  |
| Screven     | Attainment  |
| Seminole    | Attainment  |
| Spalding    | Nonattainment   |

## RECOMMENDED DESIGNATION STATUS FOR GEORGIA COUNTIES

| County Name | Designation   |
|-------------|---------------|
| Stephens    | Attainment    |
| Stewart     | Attainment    |
| Sumter      | Attainment    |
| Talbot      | Attainment    |
| Taliaferro  | Attainment    |
| Tattnall    | Attainment    |
| Taylor      | Attainment    |
| Telfair     | Attainment    |
| Terrell     | Attainment    |
| Thomas      | Attainment    |
| Tift        | Attainment    |
| Toombs      | Attainment    |
| Towns       | Attainment    |
| Treutlen    | Attainment    |
| Troup       | Attainment    |
| Turner      | Attainment    |
| Twiggs      | Attainment    |
| Union       | Attainment    |
| Upson       | Attainment    |
| Walker      | Attainment    |
| Walton      | Nonattainment |
| Ware        | Attainment    |
| Warren      | Attainment    |
| Washington  | Attainment    |
| Wayne       | Attainment    |
| Webster     | Attainment    |
| Wheeler     | Attainment    |
| White       | Attainment    |
| Whitfield   | Attainment    |
| Wilcox      | Attainment    |
| Wilkes      | Attainment    |
| Wilkinson   | Attainment    |
| Worth       | Attainment    |

# Georgia Department of Natural Resources

Environmental Protection Division, Air Protection Branch

4244 International Parkway, Suite 120, Atlanta, Georgia 30354

Phone: 404/363-7000; Fax: 404/363-7100

Lonice C. Barrett, Commissioner

David M. Word, Assistant Director

July 17, 2003

Ms. Kay Prince  
Chief, Air Planning Branch  
Air, Pesticides & Toxics Management Division  
U.S. EPA, Region IV  
61 Forsyth Street, SW  
Atlanta, GA 30303-8909

Re: Recommendations for Nonattainment Designations Under the 8-Hour Ozone NAAQS

Dear Ms. Prince:

Our July 15, 2003, submittal contains Georgia EPD's recommendations for the designation status of each county in Georgia under the 8-hour ozone standard. As indicated in that letter, we have recommended the following 8-hour ozone nonattainment areas:

- Atlanta area to include Barrow, Bartow, Carroll, Cherokee, Clayton, Cobb, Coweta, DeKalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Hall, Henry, Newton, Paulding, Rockdale, Spalding and Walton Counties;
- Macon area to include Bibb County;
- Augusta area to include Richmond County; and
- Fort Mountain area to include that portion of Murray County, which contains the federal Class 1 Cohutta Wilderness Area.

With this letter we are supplying additional information regarding the selection methodology used to arrive at the aforementioned recommendations. These recommendations were developed in accordance with the boundary guidance provided by the U.S. EPA. The attached memo, dated July 15, 2003, provides the background information on the nonattainment designation process, including the Georgia counties that were evaluated for nonattainment designation, the selection criteria used to evaluate those counties, and the application of those criteria in making the final nonattainment designations. The memo explains how each of the selection criteria used address one or more of the recommended eleven selection criteria contained in EPA's nonattainment designation guidance. It is our hope that this information will aid EPA in reviewing and approving EPD's recommendations for the designations.

If you have any questions or need more information, please contact me at (404) 363-7016.

Sincerely,



Ron Methier  
Chief, Air Protection Branch

Attachment

# Georgia Department of Natural Resources

Environmental Protection Division, Air Protection Branch

4244 International Parkway, Suite 120, Atlanta, Georgia 30354

Phone: 404/363-7000; Fax: 404/363-7100

Lonice C. Barrett, Commissioner

Harold F. Reheis, Director

July 15, 2003

## MEMORANDUM

TO: Harold Reheis

FROM: Ron Methier 

SUBJECT: Nonattainment Area Designations under the 8-hour Ozone Standard

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### Background

As required under section 107(d)(1)(A) of the Clean Air Act (CAA), the Governor must submit to the U.S. Environmental Protection Agency (EPA) by July 15, 2003, a list initially designating each area of the State as nonattainment, attainment or unclassifiable with respect to the new 8-hour National Ambient Air Quality Standard for ozone. By no later than April 15, 2004, the EPA Administrator will promulgate the designation of each area of the State by Final Rule and notice in the Federal Register. As provided under section 107(d)(1)(B) of the CAA, the Administrator may modify, as he deems necessary, the initial area designations and/or area boundaries submitted by the Governor.

The Air Protection Branch has reviewed guidance provided by the EPA as well as pertinent, available data to develop criteria for assigning area designations and boundaries. The EPA's March 28, 2000, memorandum "Boundary Guidance on Air Quality Designations for the 8-Hour Ozone National Ambient Air Quality Standard (NAAQS)" enunciates the EPA's position that any monitored violation of the standard within a Metropolitan Statistical Area (MSA) should, as an initial presumption, cause that entire MSA to be considered for designation as nonattainment:

*"The EPA believes that any county with an ozone monitor showing a violation of the NAAQS and any nearby contributing area needs to be designated as nonattainment. In reducing ozone concentrations above the NAAQS, EPA believes it is best to consider controls on sources over a larger area due to the pervasive nature of ground level ozone and transport of ozone and its precursors. Thus, EPA recommends that the Metropolitan Statistical Area or the Consolidated Metropolitan Statistical Area (C/MSA) serve as the presumptive boundary for 8-hour NAAQS nonattainment areas. We believe this approach will best ensure public health protection from the adverse effects of ozone pollution caused by population density, traffic and commuting patterns, commercial development, and area growth."*

As a result, the starting point for evaluation of nonattainment area boundaries should be the entire C/MSA if any monitor located within a C/MSA shows a violation of the 8-hour ozone NAAQS. In Georgia, monitors showing violations of the 8-hour ozone NAAQS are located in 10 counties within the Atlanta C/MSA (Cobb, Coweta, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Henry, Paulding and Rockdale), in Richmond County within the Augusta-Aiken C/MSA and in Bibb County within the Macon C/MSA. Accordingly, the entire Atlanta, Augusta-Aiken and Macon C/MSAs comprise three potential nonattainment area boundaries. The counties included in these three C/MSAs are shown on the map "Consolidated Metropolitan Statistical Areas for Atlanta, Augusta and Macon" (Attachment A). In the case of Atlanta, controls have been placed in the existing 13-county 1-hour ozone nonattainment area as well as the surrounding 32-counties to attain the old 1-hour ozone standard. Hence, the starting point for Atlanta includes



## Nonattainment Area Designations under the 8-Hour Ozone Standard

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these 45-counties, shown on the map "Atlanta's Area of Influence under the 1-hour Ozone Standard" (Attachment B).

The March 28 memorandum lists the following factors that should be addressed if a State seeks to propose nonattainment area boundaries larger or smaller than the Consolidated Metropolitan Statistical Areas (C/MSAs):

- a. Emissions and air quality in adjacent areas
- b. Population density and degree of urbanization
- c. Monitoring data representing ozone concentrations in local areas and larger areas
- d. Location of emission sources
- e. Traffic and commuting patterns
- f. Expected growth
- g. Meteorology
- h. Geography/topography
- i. Jurisdictional boundaries
- j. Level of control of emission sources
- k. Regional emission reductions

In order to address these factors we have obtained and reviewed the following data:

- Quality assured ozone monitoring data from each of the sites operated by our Ambient Monitoring Program.
- County by county NO<sub>x</sub> and VOC emissions during CY 1999, compiled using the best available data from Georgia's 1999 Emissions Inventory, Georgia Tech's 1999 modeling inventories for Atlanta, Augusta and Macon, and EPA's 1999 National Emissions Inventory.
- Projected county-by-county NO<sub>x</sub> and VOC emissions for CY 2007 based on application of EPA's EGAS projection model to the 1999 county-by-county NO<sub>x</sub> and VOC emissions compiled as described above.
- 1990 & 2000 census data, and Consolidated Metropolitan Statistical Area boundaries from the U.S. Census Bureau.
- Projected CY 2005 and CY 2010 population data from the Georgia Department of Labor as published in Georgia State University's "The Georgia County Guide."
- CY 2001 summer daily vehicle miles traveled (VMT) data (without interstates) from the Georgia Department of Transportation.

### Development of Criteria

The above data were reviewed in light of the EPA's guidance factors and input received from other State agencies. This process resulted in development of a set of criteria for use in screening counties in and around the Atlanta, Augusta and Macon C/MSAs for inclusion within the proposed nonattainment area boundaries. Attachment C, "Determination of 8-hour Ozone Nonattainment Areas" contains data on various criteria for the counties under consideration. In addition to the screening criteria, there are two factors that mandate inclusion of a county in the nonattainment area:

- 1) If the data from a monitor in a county show a violation of the standard, that is an absolute indicator of nonattainment and the county must be designated nonattainment. The spreadsheet "Determination of 8-hour Ozone Nonattainment Areas in Georgia" indicates

## Nonattainment Area Designations under the 8-Hour Ozone Standard

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those counties in which ozone monitors are located, and whether a monitor has documented a violation of the standard.

- 2) If a county is currently designated nonattainment under the 1-hour standard, it will be included in the 8-hour nonattainment area. As a result, all 13 counties in the existing Atlanta 1-hour ozone nonattainment area will be included in the new Atlanta 8-hour ozone nonattainment area.

The two factors listed above incorporate the air quality considerations of the EPA's guidance factors "a" and "c" related to air quality and monitoring data, as well as local and regional emission controls already in place (for the 1-hour standard) which relate to guidance factors "j" and "k".

The screening criteria and rationale for their application are presented below.

**Criterion 1: Projected 2007 population density exceeding the minimum value that corresponds to a monitored violation within a C/MSA.** This criterion addresses guidance factors "b" and "f". To the extent that ozone precursor emissions are a function of human activity, population density of a county may serve as a reasonable indicator that activities within the county contribute to overall nonattainment within the C/MSA. The threshold value for this criterion has been selected as the population density below which no monitored violation of the 8-hour standard has occurred (an exception is Murray County, which is discussed below). The 2007 projected population of each county was interpolated using values for four years: U.S. Census Bureau data for years 1990 and 2000, and projected 2005 and 2010 data from the Georgia Department of Labor as published in Georgia State University's "The Georgia County Guide." As indicated in the spreadsheet "Determination of 8-hour Ozone Nonattainment Areas in Georgia," the county with the lowest measured population density, which has a violating monitor, is Coweta County, with a (2000 census) population density of 204 persons per square mile. Accordingly, a county with a projected 2007 population density equal to or greater than 204 persons per square mile would satisfy this criterion for inclusion in its C/MSAs nonattainment area.

**Criterion 2: Projected 2007 NO<sub>x</sub> or VOC emissions density exceeding the minimum value that corresponds to a known monitored violation within a C/MSA.** As NO<sub>x</sub> and VOC are precursors to ozone formation, the more NO<sub>x</sub> or VOC emitted in a county the greater the contribution to the nonattainment problem. This criterion reflects the normalized (by land area) level of precursor emissions (per guidance factors "a", "d", "f," "h" and "i") as well as those emission controls and emission reductions already in place (per guidance factors j and k). Correlation of county-by-county 1999 emissions data to monitored violations of the 8-hour standard reveals that Paulding County has had the lowest NO<sub>x</sub> emissions density (8 tons per year per square mile) and Coweta County has had the lowest VOC emissions density (10 tons per year per square mile) of any counties having a violating monitor (excluding Murray County, which is discussed below). Any county having either a NO<sub>x</sub> emissions density equal to or greater than 8 tons per year per square mile or a VOC emissions density equal to or greater than 10 tons per year per square mile would meet this criterion for nonattainment designation.

**Criterion 3: Daily commuting trips (year 2000 basis) from a county into the nonattainment area exceeding the minimum number of daily in-commutes for an existing nonattainment county.** This criterion addresses the commuting pattern aspect of guidance factor "e." For the Atlanta C/MSA, an "in-commute" represents a trip into one of the five nonattainment "core

## **Nonattainment Area Designations under the 8-Hour Ozone Standard**

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counties" (Clayton, Cobb, DeKalb, Fulton and Gwinnett). For the Macon C/MSA, an in-commute is a trip into Bibb County. For the Augusta C/MSA, an in-commute is a trip into either Richmond County (Georgia) or Aiken County (South Carolina). Based on year 2000 data from the U.S. Census Bureau, the minimum number of daily in-commutes from a county currently designated nonattainment is 14,388 (from Rockdale County into the five Atlanta core counties). Any county with year 2000 daily in-commutes of 14,388 or greater would meet this criterion for nonattainment.

**Criterion 4: Summer daily non-interstate vehicle miles traveled (VMT) exceeding the minimum summer daily non-interstate VMT for an existing nonattainment county (year 2001 basis).** This criterion addresses the overall magnitude of a county's traffic per guidance factor "e." In order to minimize the effects of non-resident traffic, only non-interstate VMT are considered. Based on data from the Georgia Department of Transportation for the year 2001, Rockdale County had the minimum summer daily non-interstate VMT of any existing nonattainment county – 1,736,566 miles per day. Any county with summer daily non-interstate VMT of 1,736,566 miles per day would meet this criterion for nonattainment.

### **Application of Criteria**

Any county within a nonattainment C/MSA (or, for Atlanta, within the 45 county "area of influence") would be included in the nonattainment area if it meets any two of the four screening criteria, unless there were compelling factors to override that determination. As indicated previously, the 13 Atlanta area counties (Cherokee, Clayton, Cobb, Coweta, DeKalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Paulding and Rockdale) currently designated nonattainment under the 1-hour standard will be designated nonattainment for the 8-hour standard. In addition to the existing Atlanta area nonattainment counties, Bibb, Richmond and Murray Counties have monitors, which violate the 8-hour standard and must be designated nonattainment. As indicated on the attached spreadsheet "Determination of 8-hour Ozone Nonattainment Areas in Georgia," the following additional counties meet two or more screening criteria:

In the Atlanta C/MSA or 45-county area of influence – Barrow, Bartow, Carroll, Newton, Spalding, Walton, Hall, Clarke and Floyd.

In the Macon C/MSA – Houston.

In the Augusta-Aiken (SC) C/MSA – Columbia.

In the Chattanooga (TN) C/MSA – Catoosa and Whitfield.

(For the Columbus C/MSA, Muscogee County meets two criteria but there have been no monitored violations of the 8-hour standard in the C/MSA and therefore the area is in attainment.)

### **Additional Considerations**

The U.S. EPA and Georgia Tech have performed ozone air quality modeling under the Fall-line Air Quality Study (FAQS) which indicates that Macon and Augusta should attain (and Columbus will continue to attain) the 8-hour ozone standard by 2007, after implementation of the NOx SIP Call and federal fuel and vehicle standards, with no additional local control measures required.

## **Nonattainment Area Designations under the 8-Hour Ozone Standard**

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The EPA and Systems Application International (SAI) have also performed such modeling under the Arkansas–Tennessee–Mississippi Ozone study (ATMOS) for the Chattanooga, Tennessee area, with similar results. In addition, local governments in both the Chattanooga and Augusta areas have entered into Early Action Compacts with the EPA, committing to achieve attainment by no later than December 31, 2007. Because modeling indicates that the Chattanooga, Augusta and Macon areas will achieve attainment of the 8-hour ozone standard without the need for any new control measures, the Air Protection Branch concludes that designation of Catoosa, Whitfield, Houston and Columbia Counties as nonattainment is not warranted.

The monitor in Murray County is located at Fort Mountain in the federal Class I Cohutta Wilderness Area at a high elevation. Nonattainment found at this monitor undoubtedly results from regional ozone transport, as the county has no significant emission sources and meets none of the screening criteria. EPA's proposed rulemaking for implementation of the 8-hour standard acknowledges that rural nonattainment areas such as Cohutta are completely dependent upon control measures implemented at upwind emission sources for future attainment. As a result, the Air Protection Branch concludes that only the federal Class I Cohutta Wilderness Area within Murray County should be designated as nonattainment.

As indicated previously, Clarke County meets at least two of the screening criteria for nonattainment and is within Atlanta's 45-county area of influence. However, Clarke County has an ozone monitor which has not collected the required three years' data to indicate either attainment or nonattainment. Because Clarke County is the hub of a separate C/MSA and nonattainment has not been documented, the Air Protection Branch concludes that Clarke County should not be designated nonattainment at this time.

Floyd County meets two of the screening criteria and is within Atlanta's 45-county area of influence. As is the case with Clarke County, Floyd County is the hub of a separate C/MSA and nonattainment has not been documented. The Air Protection Branch concludes that Floyd County should not be designated nonattainment at this time.

### **Recommendation**

The Air Protection Branch recommends the following areas be designated nonattainment for the 8-hour ozone standard:

Atlanta Nonattainment Area: Barrow, Bartow, Carroll, Cherokee, Clayton, Cobb, Coweta, DeKalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Hall, Henry, Newton, Paulding, Rockdale, Spalding and Walton Counties.

Augusta Nonattainment Area: Richmond County

Macon Nonattainment Area: Bibb County

Fort Mountain Nonattainment Area: That portion of Murray County within the Cohutta Wilderness Class 1 Area

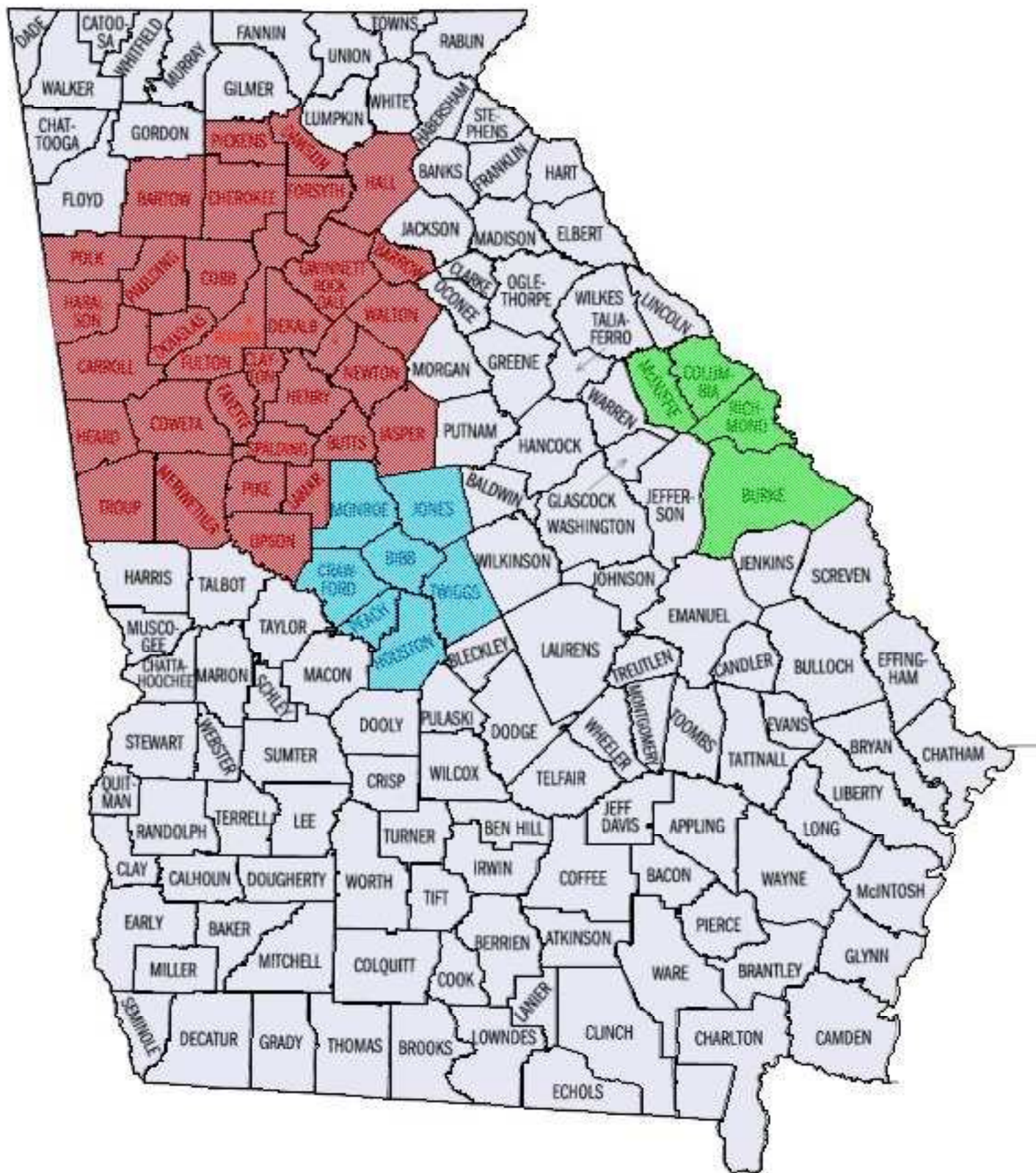
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Attachments

# ATTACHMENT A

## Consolidated Metropolitan Statistical Areas (C/MSAs) for Atlanta, Augusta and Macon

Source: U.S. Census Bureau's 2000 data on metropolitan, micropolitan, and combined statistical areas (CSAs) in Georgia.





**ATTACHMENT C**

Version date: July 15, 2003

**Determination of 8-Hour Ozone Nonattainment Areas in Georgia**

| County Name    | Monitor violates the 8-hour standard?<br><br>(yes/no) | Criterion 1        | Criterion 2       |               | Criterion 3                        |               | Criterion 4  | No. of Criteria Met |
|----------------|---|--------------------|-------------------|---------------|------------------------------------|---------------|--|---------------------|
|                |   | Population Density | Emissions Density |               | 2000 In-Commutes (worker flows) to |               | 2001 Summer Daily Vehicle Miles Traveled (VMT) w/o interstates |                     |
|                |   |                    | 2007              | 2007 NOx      | 2007 VOC                           | Core counties |  |                     |
|                |   | (persons/sq mile)  | (tpy/sq mile)     | (tpy/sq mile) | (persons)                          | (persons)     | (miles/day)  |                     |
| <b>ATLANTA</b> |   |                    |                   |               |                                    |               |  |                     |
| Cherokee       |   | 440                | 11                | 11            | 41,597                             | 41,766        | 3,277,346.40   | 4                   |
| Clayton        |   | 1,979              | 84                | 49            | 99,057                             | 66,152        | 4,239,523.26   | 4                   |
| Cobb           | Yes   | 2,150              | 68                | 49            | 301,751                            | 305,446       | 11,641,231.72  | 4                   |
| Coweta         | Yes   | 266                | 34                | 7             | 14,499                             | 38,078        | 2,335,876.15   | 4                   |
| DeKalb         | Yes   | 2,726              | 64                | 68            | 325,679                            | 325,606       | 11,109,850.91  | 4                   |
| Douglas        | Yes   | 549                | 19                | 16            | 25,857                             | 42,689        | 2,419,880.63   | 4                   |
| Fayette        | Yes   | 574                | 14                | 13            | 23,962                             | 37,328        | 2,460,373.91   | 4                   |
| Forsyth        |   | 668                | 16                | 20            | 25,844                             | 25,967        | 3,376,456.27   | 4                   |
| Fulton         | Yes   | 1,738              | 71                | 52            | 363,026                            | 358,732       | 18,437,558.09  | 4                   |
| Gwinnett       | Yes   | 1,785              | 43                | 39            | 288,779                            | 289,889       | 13,181,926.59  | 4                   |
| Henry          | Yes   | 539                | 21                | 14            | 36,191                             | 43,728        | 2,817,964.83   | 4                   |
| Paulding       | Yes   | 374                | 7                 | 8             | 24,665                             | 37,382        | 1,851,557.55   | 3                   |
| Rockdale       | Yes   | 616                | 19                | 19            | 14,338                             | 28,629        | 1,736,565.83   | 4                   |
|                |   |                    |                   |               |                                    |               |  |                     |
| Barrow         |   | 368                | 16                | 18            | 10,565                             | 10,707        | 1,561,901.72   | 2                   |
| Bartow         |   | 205                | 30                | 8             | 10,062                             | 10,317        | 2,656,851.02   | 3                   |
| Butts          |   | 128                | 9                 | 7             | 1,740                              | 2,718         | 527,038.15   | 1                   |
| Carroll        |   | 206                | 11                | 11            | 7,042                              | 12,259        | 2,625,927.60   | 3                   |
| Dawson         | No  | 104                | 4                 | 6             | 2,143                              | 2,148         | 581,438.14   | 0                   |
| Haralson       |   | 102                | 6                 | 10            | 1,733                              | 2,651         | 828,711.34   | 1                   |
| Heard          |   | 43                 | 15                | 4             | 454                                | 1,488         | 386,263.09   | 1                   |
| Jasper         |   | 38                 | 2                 | 3             | 717                                | 1,442         | 470,308.97   | 0                   |
| Lamar          |   | 98                 | 5                 | 5             | 851                                | 1,237         | 548,854.73   | 0                   |
| Meriwether     |   | 45                 | 4                 | 5             | 859                                | 2,753         | 782,719.78   | 0                   |
| Newton         |   | 298                | 13                | 12            | 8,177                              | 14,696        | 1,603,222.49   | 2                   |
| Pickens        |   | 134                | 6                 | 8             | 2,183                              | 2,225         | 891,478.77   | 0                   |
| Pike           |   | 77                 | 3                 | 4             | 1,067                              | 1,286         | 491,746.29   | 0                   |
| Spalding       |   | 307                | 15                | 15            | 5,071                              | 7,321         | 1,511,748.59   | 2                   |
| Walton         |   | 247                | 8                 | 10            | 12,218                             | 13,659        | 1,934,266.90   | 3                   |
|                |   |                    |                   |               |                                    |               |  |                     |
| Hall           |   | 444                | 17                | 18            | 11,604                             | 11,590        | 4,014,380.43   | 3                   |
| Polk           |   | 134                | 7                 | 8             | 1,406                              | 1,940         | 1,256,843.37   | 0                   |
| Troup          |   | 148                | 11                | 15            | 855                                | 1,740         | 1,680,467.48   | 1                   |
| Upson          |   | 88                 | 5                 | 5             | 310                                | 340           | 790,243.48   | 0                   |
|                |   |                    |                   |               |                                    |               |  |                     |
| Banks          |   | 76                 | 4                 | 4             | 376                                | 391           | 492,231.44   | 0                   |
| Chattooga      |   | 89                 | 6                 | 4             | 89                                 | 99            | 826,245.25   | 0                   |
| Clarke         | No  | 908                | 31                | 35            | 2,190                              | 2,383         | 2,872,706.73   | 3                   |
| Floyd          |   | 189                | 22                | 11            | 1,526                              | 1,650         | 3,036,301.95   | 2                   |
| Gilmer         |   | 73                 | 3                 | 3             | 846                                | 859           | 976,323.60   | 0                   |
| Gordon         |   | 145                | 11                | 9             | 689                                | 709           | 1,417,958.18   | 1                   |
| Jackson        |   | 152                | 11                | 7             | 3,230                              | 3,213         | 1,545,272.14   | 1                   |
| Lumpkin        |   | 92                 | 4                 | 4             | 1,073                              | 1,083         | 818,513.61   | 0                   |
| Madison        |   | 102                | 4                 | 4             | 266                                | 288           | 896,625.57   | 0                   |
| Morgan         |   | 51                 | 6                 | 7             | 486                                | 679           | 685,480.82   | 0                   |
| Oconee         |   | 176                | 11                | 11            | 740                                | 768           | 1,362,355.06   | 1                   |
| Putnam         |   | 64                 | 59                | 4             | 420                                | 479           | 844,238.14   | 1                   |
| Talbot         |   | 17                 | 2                 | 2             | 69                                 | 93            | 411,567.01   | 0                   |

**ATTACHMENT C**

Version date: July 15, 2003

**Determination of 8-Hour Ozone Nonattainment Areas in Georgia**

| County Name | Monitor violates the 8-hour standard?<br><br>(yes/no) | Criterion 1        | Criterion 2       |               | Criterion 3                        |               | Criterion 4  | No. of Criteria Met |
|-------------|---|--------------------|-------------------|---------------|------------------------------------|---------------|--|---------------------|
|             |   | Population Density | Emissions Density |               | 2000 In-Commutes (worker flows) to |               | 2001 Summer Daily Vehicle Miles Traveled (VMT) w/o interstates |                     |
|             |   |                    | 2007              | 2007 NOx      | 2007 VOC                           | Core counties |  |                     |
|             |   | (persons/sq mile)  | (tpy/sq mile)     | (tpy/sq mile) | (persons)                          | (persons)     | (miles/day)  |                     |

**AUGUSTA**

|          |     |     |    |    |        |        |              |   |
|----------|-----|-----|----|----|--------|--------|--------------|---|
| Burke    |     | 29  | 2  | 2  | 2,147  | 2,147  | 1,009,887.89 | 0 |
| Columbia |     | 363 | 12 | 14 | 26,207 | 22,363 | 1,641,509.10 | 2 |
| McDuffie |     | 84  | 6  | 6  | 892    | 1,332  | 737,166.53   | 0 |
| Richmond | Yes | 608 | 25 | 25 | 72,696 | 67,645 | 4,363,836.99 | 4 |

|           |  |    |   |   |     |     |            |   |
|-----------|--|----|---|---|-----|-----|------------|---|
| Emanuel   |  | 33 | 2 | 2 | 33  | 33  | 942,466.58 | 0 |
| Jefferson |  | 32 | 2 | 3 | 544 | 544 | 863,869.69 | 0 |
| Jenkins   |  | 25 | 2 | 2 | 93  | 93  | 414,792.46 | 0 |
| Lincoln   |  | 42 | 3 | 6 | 522 | 522 | 278,616.08 | 0 |
| Screven   |  | 25 | 2 | 2 | 151 | 151 | 651,121.97 | 0 |
| Warren    |  | 23 | 4 | 2 | 232 | 232 | 304,374.02 | 0 |
| Wilkes    |  | 23 | 1 | 2 | 69  | 69  | 542,270.41 | 0 |

**MACON**

|          |     |     |    |    |        |        |              |   |
|----------|-----|-----|----|----|--------|--------|--------------|---|
| Bibb     | Yes | 620 | 40 | 36 | 57,828 | 54,125 | 3,372,884.80 | 4 |
| Crawford |     | 45  | 2  | 2  | 3,002  | 2,360  | 394,743.30   | 0 |
| Jones    |     | 66  | 5  | 4  | 6,345  | 5,988  | 921,533.85   | 0 |
| Monroe   |     | 63  | 90 | 6  | 3,398  | 3,262  | 683,756.19   | 1 |
| Twiggs   |     | 31  | 4  | 2  | 2,179  | 1,929  | 439,435.88   | 0 |

|         |  |     |    |    |        |       |              |   |
|---------|--|-----|----|----|--------|-------|--------------|---|
| Houston |  | 336 | 21 | 14 | 48,524 | 8,570 | 2,510,757.84 | 3 |
| Peach   |  | 172 | 13 | 12 | 4,308  | 2,361 | 699,517.16   | 1 |

|           |  |     |   |   |       |     |              |   |
|-----------|--|-----|---|---|-------|-----|--------------|---|
| Baldwin   |  | 184 | 6 | 9 | 985   | 900 | 1,268,651.45 | 0 |
| Bleckley  |  | 58  | 3 | 3 | 1,028 | 432 | 428,672.99   | 0 |
| Dooley    |  | 32  | 6 | 4 | 295   | 75  | 468,144.54   | 0 |
| Laurens   |  | 59  | 4 | 4 | 595   | 501 | 1,748,505.20 | 1 |
| Macon     |  | 37  | 7 | 3 | 590   | 270 | 507,988.87   | 0 |
| Pulaski   |  | 42  | 2 | 2 | 695   | 161 | 349,733.29   | 0 |
| Taylor    |  | 25  | 3 | 2 | 298   | 184 | 470,280.42   | 0 |
| Wilkinson |  | 23  | 3 | 2 | 599   | 538 | 567,109.69   | 0 |

**CHATTANOOGA**

|         |  |     |    |    |        |        |              |   |
|---------|--|-----|----|----|--------|--------|--------------|---|
| Catoosa |  | 384 | 16 | 18 | 14,257 | 12,320 | 1,219,090.43 | 2 |
| Dade    |  | 98  | 9  | 6  | 3,838  | 3,091  | 446,251.54   | 1 |
| Walker  |  | 143 | 3  | 7  | 20,342 | 9,098  | 1,705,784.84 | 0 |

|           |     |     |    |    |     |     |              |   |
|-----------|-----|-----|----|----|-----|-----|--------------|---|
| Murray    | Yes | 129 | 7  | 5  | 410 | 349 | 1,402,542.48 | 0 |
| Whitfield |     | 320 | 23 | 21 | 947 | 807 | 2,693,984.11 | 3 |



# Georgia Department of Natural Resources

Environmental Protection Division • Air Protection Branch

4244 International Parkway • Suite 120 • Atlanta • Georgia 30354

US EPA

404/363-7000 • Fax: 404/363-7100

Lonice C. Barrett, Commissioner  
David M. Word, Assistant Director

2003 NOV 14 P:2:19

November 14, 2003

Ms. Beverly Banister  
Director, Air Pesticides & Toxics Management Division  
U.S. EPA, Region IV  
61 Forsyth Street, SW  
Atlanta, Georgia 30303-3104

## Re: 8-Hour Ozone Nonattainment Designation for Augusta / Richmond County

Dear Ms. Banister:

EPD has recently completed the quality assurance of ozone monitoring data for the 2003 ozone monitoring season for the Augusta area (which extends through October 31, 2003). This quality-assured data has been entered into the Aerometric Information Retrieval System's Air Quality Subsystem (AQS).

A review of the monitoring data for the most recent three year period ending with the 2003 ozone monitoring season indicates that the Augusta area has attained the 8-hour ozone National Ambient Air Quality Standard (NAAQS). As the attached analysis of the monitoring data shows, the current 8-hour ozone design value for the Augusta area is 0.083 parts per million.

As a result of this improvement in monitored ozone concentrations in the Augusta area, EPD is hereby withdrawing our previous recommendation of July 15, 2003, that Richmond County be designated as a nonattainment area for the 8-hour ozone NAAQS and is instead formally requesting that Richmond County be designated as an attainment area.

It is our expectation that the attached data and analysis will be sufficient for you to approve our request regarding the attainment status of Richmond County. If you have any questions or need more information, please contact Ron Methier at (404) 363-7016.

Sincerely,



David M. Word  
Assistant Director

c: Ron Methier

Attachments

## Review of Augusta Area Ozone Monitoring Data for 2001 – 2003 Ozone Monitoring Seasons

Georgia EPD maintains one ground-level ozone monitoring site in the Augusta area, which has a site identification number of 13-245-00091 and is located at Bungalow Road in Augusta. Pursuant to discussions with Kay Prince and members of her staff, and in support of EPD's request for Richmond County to be designated as attainment for the 8-hour ozone standard, we are submitting the following analysis of the 8-hour and 1-hour ozone design values for the Augusta area.

### 1. 8-Hour Design Value Analysis

The 8-hour ozone design value for the three year period from 2001 through 2003 is **0.083 parts per million**, which is below the nonattainment designation threshold of 0.085 under the 8-hour ozone NAAQS. The results of running a "Quick Look Report (AMP450)" query in the AQS database system produced the following results for the 8-hour ozone concentrations at this monitoring site:

#### Analysis of 8-Hour Ozone Concentrations in Augusta Area

| Year   | 2001  | 2002  | 2003  |
|--|-------|-------|-------|
| Method   | 047   | 047   | 047   |
| % OBS  | 96    | 99    | 100   |
| Valid Days Measured                                |       |       | 245   |
| Number Days Required                               |       |       | 245   |
| 1 <sup>st</sup> Maximum 8-Hour Concentration (ppm) | 0.102 | 0.102 | 0.082 |
| 2 <sup>nd</sup> Maximum 8-Hour Concentration (ppm) | 0.086 | 0.086 | 0.080 |
| 3 <sup>rd</sup> Maximum 8-Hour Concentration (ppm) | 0.085 | 0.085 | 0.079 |
| 4 <sup>th</sup> Maximum 8-Hour Concentration (ppm) | 0.082 | 0.082 | 0.078 |
| Days Maximum $\geq$ 0.085 (ppm)                    | 3     | 5     | 0     |

### 2. 1-Hour Design Value Analysis

The 1-hour ozone design value for the three year period from 2001 through 2003 is **0.110 parts per million**, which is substantially below the nonattainment designation threshold of 0.125 under the 1-hour ozone NAAQS.

The results of running a "Quick Look Report (AMP450)" query in the AQS database system produced the following results for the 8-hour ozone concentrations at this monitoring site:

### Analysis of 1-Hour Ozone Concentrations in Augusta Area

| Year   | 2001  | 2002  | 2003  |
|--|-------|-------|-------|
| Method   | 047   | 047   | 047   |
| % OBS  | 96    | 99    | 100   |
| Valid Days Measured                                | 237   | 243   | 245   |
| Number Days Required                               | 245   | 245   | 245   |
| 1 <sup>st</sup> Maximum 8-Hour Concentration (ppm) | 0.121 | 0.112 | 0.093 |
| 2 <sup>nd</sup> Maximum 8-Hour Concentration (ppm) | 0.103 | 0.111 | 0.091 |
| 3 <sup>rd</sup> Maximum 8-Hour Concentration (ppm) | 0.101 | 0.110 | 0.089 |
| 4 <sup>th</sup> Maximum 8-Hour Concentration (ppm) | 0.094 | 0.103 | 0.089 |
| Days Maximum $\geq$ 0.125 (ppm)                    | 0     | 0     | 0     |
| Estimated Days Maximum $\geq$ 0.125 (ppm)          | 0     | 0     | 0     |
| Missing Days $<$ 0.125                             | 0     | 0     | 0     |

### 3. Average Expected Exceedance Rate for 1-Hour Ozone Concentration

As indicated in the 1-hour ozone Quick Look Report results for the 1-hour ozone standard presented above, the average expected exceedance rate for the 1-hour ozone standard is zero, as expressed as estimated days  $\geq$  0.125 ppm.

For your reference, portions of the AQS Quick Look Reports for the monitored 8-hour and 1-hour ozone concentrations, which contain the calculated values presented in the analyses above, are attached.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 QUICK LOOK REPORT (AMP450)

Nov. 5, 2003

PPM (007)

GEORGIA

Ozone (44201)

8-HOUR

| SITE ID     | P<br>O<br>C | REP<br>ORG | CITY    | COUNTY   | ADDRESS     | YEAR     | METH | #OBS | VALID<br>DAYS<br>MEAS | NUM<br>DAYS<br>REQ | 1ST         |             | 2ND         |             | 3RD         |             | 4TH         |             | DAY |             |
|-------------|-------------|------------|---------|----------|-------------|----------|------|------|-----------------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-------------|
|             |             |            |         |          |             |          |      |      |                       |                    | MAX<br>8-HR | MAX<br>8-HR | MAX<br>8-HR | MAX<br>8-HR | MAX<br>8-HR | MAX<br>8-HR | MAX<br>8-HR | MAX<br>8-HR |     | MAX<br>8-HR |
| 13-021-0012 | 1           | 0437       | MACON   | BIBB     | MACON SE    | 2003     | 047  | 100  | 245                   | 245                | 245         | .089        | .084        | .084        | .084        | .081        | .081        | .081        | 1   | 0           |
| 13-245-0091 | 1           | 0437       | AUGUSTA | RICHMOND | BUNGALOW RD | AUG 2003 | 047  | 100  | 245                   | 245                | 245         | .082        | .080        | .079        | .078        | .078        | .078        | .078        | 0   | 0           |

Note: The \* indicates that the mean does not satisfy summary criteria.

| Site ID     | P | O | C             | Org Type | City     | County   | Address                                | Year | # Obs | % Obs | Highest Value | 2nd Highest Value | 3rd Highest Value | 4th Highest Value | # > 0.084 | Miss Days Assumed-Standard | Certified Data | Exc. |
|-------------|---|---|---------------|----------|----------|----------|--|------|-------|-------|---------------|-------------------|-------------------|-------------------|-----------|----------------------------|----------------|------|
| 13-215-1003 | 1 | F | COLUMBUS      | MUSCOGEE | COLUMBUS | MUSCOGEE | COLUMBUS CRIME LAB, US HWY 80, SPUR 22 | 1996 | 4,954 | 74    | 0.087         | 0.085             | 0.084             | 0.083             | 2         | 0                          | 0              | 0    |
| 13-215-1003 | 1 | F | COLUMBUS      | MUSCOGEE | COLUMBUS | MUSCOGEE | COLUMBUS CRIME LAB, US HWY 80, SPUR 22 | 1997 | 4,994 | 96    | 0.096         | 0.090             | 0.084             | 0.081             | 2         | 0                          | 0              | 0    |
| 13-215-1003 | 1 | F | COLUMBUS      | MUSCOGEE | COLUMBUS | MUSCOGEE | US HWY 80, SPUR 22                     | 1998 | 5,007 | 97    | 0.104         | 0.095             | 0.094             | 0.089             | 8         | 0                          | 0              | Y    |
| 13-215-1003 | 1 | F | COLUMBUS      | MUSCOGEE | COLUMBUS | MUSCOGEE | US HWY 80, SPUR 22                     | 1999 | 5,075 | 85    | 0.101         | 0.098             | 0.097             | 0.097             | 12        | 0                          | 0              | Y    |
| 13-215-1003 | 1 | F | COLUMBUS      | MUSCOGEE | COLUMBUS | MUSCOGEE | US HWY 80, SPUR 22                     | 2000 | 5,767 | 98    | 0.104         | 0.101             | 0.095             | 0.094             | 7         | 0                          | 0              | 0    |
| 13-215-1003 | 1 | F | COLUMBUS      | MUSCOGEE | COLUMBUS | MUSCOGEE | US HWY 80, SPUR 22                     | 2001 | 5,791 | 97    | 0.081         | 0.080             | 0.080             | 0.079             | 0         | 0                          | 0              | 0    |
| 13-215-1003 | 1 | F | COLUMBUS      | MUSCOGEE | COLUMBUS | MUSCOGEE | US HWY 80, SPUR 22                     | 2002 | 5,278 | 89    | 0.098         | 0.086             | 0.082             | 0.078             | 2         | 0                          | 0              | 0    |
| 13-223-0002 | 5 | F | NOT IN A CITY | PAULDING | PAULDING | PAULDING | DALLAS, DOT                            | 1993 | 6,152 | 91    | 0.117         | 0.110             | 0.105             | 0.102             | 17        | 0                          | 0              | 0    |
| 13-223-0002 | 5 | F | NOT IN A CITY | PAULDING | PAULDING | PAULDING | DALLAS, DOT                            | 1994 | 6,288 | 92    | 0.114         | 0.101             | 0.101             | 0.100             | 9         | 0                          | 0              | 0    |
| 13-223-0002 | 5 | F | NOT IN A CITY | PAULDING | PAULDING | PAULDING | DALLAS, DOT                            | 1995 | 6,032 | 87    | 0.104         | 0.104             | 0.100             | 0.097             | 15        | 0                          | 0              | 0    |
| 13-223-0003 | 1 | F | NOT IN A CITY | PAULDING | PAULDING | PAULDING | YORKVILLE                              | 1996 | 5,793 | 88    | 0.104         | 0.099             | 0.097             | 0.097             | 10        | 0                          | 0              | 0    |
| 13-223-0003 | 1 | F | NOT IN A CITY | PAULDING | PAULDING | PAULDING | YORKVILLE                              | 1997 | 5,127 | 100   | 0.091         | 0.090             | 0.087             | 0.086             | 5         | 0                          | 0              | 0    |
| 13-223-0003 | 1 | F | NOT IN A CITY | PAULDING | PAULDING | PAULDING | YORKVILLE                              | 1998 | 5,074 | 99    | 0.123         | 0.122             | 0.112             | 0.104             | 28        | 0                          | 0              | 0    |
| 13-223-0003 | 1 | F | NOT IN A CITY | PAULDING | PAULDING | PAULDING | YORKVILLE                              | 1999 | 4,518 | 74    | 0.107         | 0.105             | 0.105             | 0.103             | 23        | 0                          | 0              | 0    |
| 13-223-0003 | 1 | F | NOT IN A CITY | PAULDING | PAULDING | PAULDING | YORKVILLE                              | 2000 | 5,477 | 89    | 0.092         | 0.091             | 0.089             | 0.088             | 6         | 0                          | 0              | 0    |
| 13-223-0003 | 1 | F | NOT IN A CITY | PAULDING | PAULDING | PAULDING | YORKVILLE                              | 2001 | 5,758 | 98    | 0.081         | 0.081             | 0.086             | 0.085             | 4         | 0                          | 0              | 0    |
| 13-223-0003 | 1 | F | NOT IN A CITY | PAULDING | PAULDING | PAULDING | YORKVILLE                              | 2002 | 5,848 | 99    | 0.107         | 0.107             | 0.104             | 0.099             | 11        | 0                          | 0              | 0    |
| 13-245-0091 | 1 | F | AUGUSTA       | RICHMOND | RICHMOND | RICHMOND | BUNGALOW RD AUGUSTA GA                 | 1993 | 6,169 | 93    | 0.093         | 0.092             | 0.090             | 0.089             | 7         | 0                          | 0              | Y    |
| 13-245-0091 | 1 | F | AUGUSTA       | RICHMOND | RICHMOND | RICHMOND | BUNGALOW RD AUGUSTA GA                 | 1994 | 6,332 | 98    | 0.094         | 0.088             | 0.087             | 0.086             | 4         | 0                          | 0              | Y    |
| 13-245-0091 | 1 | F | AUGUSTA       | RICHMOND | RICHMOND | RICHMOND | BUNGALOW RD AUGUSTA GA                 | 1995 | 6,290 | 98    | 0.099         | 0.099             | 0.088             | 0.087             | 5         | 0                          | 0              | 0    |
| 13-245-0091 | 1 | F | AUGUSTA       | RICHMOND | RICHMOND | RICHMOND | BUNGALOW RD AUGUSTA GA                 | 1996 | 5,822 | 89    | 0.093         | 0.092             | 0.091             | 0.089             | 4         | 0                          | 0              | 0    |

Note: The \* indicates that the mean does not satisfy summary criteria.



## Air Quality Subsystem QUICK LOOK REPORT

Mar. 26, 2003

Parameter: OZONE (8-Hour)  
All Values are in Units of Parts Per Million

| Site ID     | P | O | C       | Org Type | City     | County   | Address                            | Year | # Obs | % Obs | Highest Value | 2nd Highest Value | 3rd Highest Value | 4th Highest Value | # > 0.084 | Miss Days Assumed-Standard | Certified Data | Exc. |
|-------------|---|---|---------|----------|----------|----------|------------------------------------|------|-------|-------|---------------|-------------------|-------------------|-------------------|-----------|----------------------------|----------------|------|
| 13-245-0091 | 1 | F | AUGUSTA | RICHMOND | RICHMOND | RICHMOND | BUNGALOW RD AUGUSTA GA             | 1997 | 4,968 | 95    | 0.097         | 0.095             | 0.092             | 0.087             | 5         | 0                          | 0              | 0    |
| 13-245-0091 | 1 | F | AUGUSTA | RICHMOND | RICHMOND | RICHMOND | BUNGALOW RD AUGUSTA GA             | 1998 | 5,105 | 99    | 0.116         | 0.108             | 0.100             | 0.099             | 12        | 0                          | 0              | Y    |
| 13-245-0091 | 1 | F | AUGUSTA | RICHMOND | RICHMOND | RICHMOND | BUNGALOW RD AUGUSTA GA             | 1999 | 4,897 | 83    | 0.100         | 0.092             | 0.091             | 0.090             | 10        | 0                          | 0              | Y    |
| 13-245-0091 | 1 | F | AUGUSTA | RICHMOND | RICHMOND | RICHMOND | BUNGALOW RD AUGUSTA GA             | 2000 | 5,835 | 96    | 0.111         | 0.107             | 0.093             | 0.090             | 6         | 0                          | 0              | 0    |
| 13-245-0091 | 1 | F | AUGUSTA | RICHMOND | RICHMOND | RICHMOND | BUNGALOW RD AUGUSTA GA             | 2001 | 5,735 | 96    | 0.102         | 0.096             | 0.085             | 0.082             | 3         | 0                          | 0              | 0    |
| 13-245-0091 | 1 | F | AUGUSTA | RICHMOND | RICHMOND | RICHMOND | BUNGALOW RD AUGUSTA GA             | 2002 | 5,833 | 99    | 0.100         | 0.095             | 0.092             | 0.091             | 5         | 0                          | 0              | 0    |
| 13-247-0001 | 1 | F | CONYERS | ROCKDALE | ROCKDALE | ROCKDALE | CONYERS MONASTERY, 3780 GA HWY 212 | 1993 | 6,323 | 95    | 0.118         | 0.113             | 0.110             | 0.108             | 27        | 0                          | 0              | Y    |
| 13-247-0001 | 1 | F | CONYERS | ROCKDALE | ROCKDALE | ROCKDALE | CONYERS MONASTERY, 3780 GA HWY 212 | 1994 | 6,295 | 96    | 0.110         | 0.107             | 0.100             | 0.098             | 10        | 0                          | 0              | Y    |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 QUICK LOOK REPORT (AMP450)

Nov. 5, 2003

Ozone (44201)  
 1-HOUR

GEORGIA

PPM (007)

| P | REP  | CITY    | COUNTY   | ADDRESS     | YEAR     | METH | VALID DAYS | VALID MEAN | VALID REQ | 1ST 1-HR | 2ND 1-HR | 3RD 1-HR | 4TH 1-HR | DAY MAX | EST | MISS | CERT | EDT |
|---|------|---------|----------|-------------|----------|------|------------|------------|-----------|----------|----------|----------|----------|---------|-----|------|------|-----|
| 1 | 0437 | MACON   | BIBB     | MACON SE    | 2003     | 047  | 245        | 245        | 245       | .099     | .093     | .091     | .091     | 0       | 0.0 | 0    | 0    | 0   |
| 1 | 0437 | AUGUSTA | RICHMOND | BUNGALOW RD | AUG 2003 | 047  | 245        | 245        | 245       | .093     | .091     | .089     | .089     | 0       | 0.0 | 0    | 0    | 0   |

Note: The \* indicates that the mean does not satisfy summary criteria.



United States  
Environmental Protection Agency

# Air Quality Subsystem QUICK LOOK REPORT

Mar. 26, 2003

Parameter: OZONE (1-Hour)  
All Values are in Units of Parts Per Million

| Site ID     | P<br>O<br>C | Org<br>Type | City          | County   | Address                                    | Year | Num<br>Meas | Num<br>Req | Highest<br>Value | 2nd<br>Highest<br>Value | 3rd<br>Highest<br>Value | 4th<br>Highest<br>Value | Values > 0.124<br>Meas | Methods<br>Used | Exc<br>Data | Miss Days<br>Assumed |
|-------------|-------------|-------------|---------------|----------|--|------|-------------|------------|------------------|-------------------------|-------------------------|-------------------------|------------------------|-----------------|-------------|----------------------|
| 13-245-0091 | 1           | F           | AUGUSTA       | RICHMOND | BUNGALOW RD<br>AUGUSTA GA                  | 1999 | 205         | 245        | 0.117            | 0.108                   | 0.106                   | 0.104                   | 0                      | 0.0             | 1           | 0                    |
| 13-245-0091 | 1           | F           | AUGUSTA       | RICHMOND | BUNGALOW RD<br>AUGUSTA GA                  | 2000 | 242         | 245        | 0.129            | 0.115                   | 0.101                   | 0.100                   | 1                      | 1.0             | 1           | 2                    |
| 13-245-0091 | 1           | F           | AUGUSTA       | RICHMOND | BUNGALOW RD<br>AUGUSTA GA                  | 2001 | 237         | 245        | 0.121            | 0.103                   | 0.101                   | 0.094                   | 0                      | 0.0             | 1           | 0                    |
| 13-245-0091 | 1           | F           | AUGUSTA       | RICHMOND | BUNGALOW RD<br>AUGUSTA GA                  | 2002 | 243         | 245        | 0.112            | 0.111                   | 0.110                   | 0.103                   | 0                      | 0.0             | 1           | 0                    |
| 13-247-0001 | 1           | F           | CONYERS       | ROCKDALE | AUGUSTA GA<br>CONYERS<br>MONASTERY, 3780   | 1993 | 262         | 275        | 0.136            | 0.130                   | 0.129                   | 0.128                   | 5                      | 5.2             | 1           | 4                    |
| 13-247-0001 | 1           | F           | CONYERS       | ROCKDALE | GA HWY 212<br>CONYERS<br>MONASTERY, 3780   | 1994 | 265         | 275        | 0.124            | 0.122                   | 0.117                   | 0.115                   | 0                      | 0.0             | 1           | 1                    |
| 13-247-0001 | 1           | F           | CONYERS       | ROCKDALE | GA HWY 212<br>CONYERS<br>MONASTERY, 3780   | 1995 | 273         | 275        | 0.166            | 0.146                   | 0.145                   | 0.141                   | 5                      | 5.0             | 1           | 2                    |
| 13-247-0001 | 1           | F           | CONYERS       | ROCKDALE | GA HWY 212<br>CONYERS<br>MONASTERY, 3780   | 1996 | 245         | 275        | 0.134            | 0.123                   | 0.121                   | 0.116                   | 1                      | 1.1             | 1           | 0                    |
| 13-247-0001 | 1           | F           | CONYERS       | ROCKDALE | GA HWY 212<br>CONYERS<br>MONASTERY, 3780   | 1997 | 210         | 214        | 0.156            | 0.139                   | 0.133                   | 0.130                   | 9                      | 9.0             | 1           | 4                    |
| 13-247-0001 | 1           | F           | CONYERS       | ROCKDALE | GA HWY 212<br>CONYERS<br>MONASTERY, 3780   | 1998 | 214         | 214        | 0.140            | 0.134                   | 0.132                   | 0.129                   | 6                      | 6.0             | 1           | 0                    |
| 13-247-0001 | 1           | F           | CONYERS       | ROCKDALE | GA HWY 212<br>CONYERS<br>MONASTERY, 3780   | 1999 | 211         | 245        | 0.158            | 0.155                   | 0.153                   | 0.143                   | 13                     | 15.1            | 1           | 0                    |
| 13-247-0001 | 1           | F           | CONYERS       | ROCKDALE | GA HWY 212<br>CONYERS<br>MONASTERY, 3780   | 2000 | 244         | 245        | 0.148            | 0.132                   | 0.125                   | 0.125                   | 4                      | 4.0             | 1           | 1                    |
| 13-247-0001 | 1           | F           | CONYERS       | ROCKDALE | GA HWY 212<br>CONYERS<br>MONASTERY, 3780   | 2001 | 245         | 245        | 0.132            | 0.125                   | 0.111                   | 0.108                   | 2                      | 2.0             | 1           | 0                    |
| 13-247-0001 | 1           | F           | CONYERS       | ROCKDALE | GA HWY 212<br>CONYERS<br>MONASTERY, 3780   | 2002 | 240         | 245        | 0.147            | 0.126                   | 0.123                   | 0.116                   | 2                      | 2.0             | 1           | 0                    |
| 13-261-1001 | 2           | F           | NOT IN A CITY | SUMTER   | GA HWY 212<br>LESLIE, UNION HIGH<br>SCHOOL | 1993 | 270         | 275        | 0.098            | 0.093                   | 0.093                   | 0.092                   | 0                      | 0.0             | 1           | 2                    |
| 13-261-1001 | 2           | F           | NOT IN A CITY | SUMTER   | LESLIE, UNION HIGH<br>SCHOOL               | 1994 | 272         | 275        | 0.097            | 0.087                   | 0.083                   | 0.082                   | 0                      | 0.0             | 1           | 3                    |
| 13-261-1001 | 2           | F           | NOT IN A CITY | SUMTER   | LESLIE, UNION HIGH<br>SCHOOL               | 1997 | 207         | 214        | 0.103            | 0.098                   | 0.096                   | 0.091                   | 0                      | 0.0             | 1           | 0                    |
| 13-261-1001 | 2           | F           | NOT IN A CITY | SUMTER   | LESLIE, UNION HIGH<br>SCHOOL               | 1998 | 213         | 214        | 0.098            | 0.095                   | 0.091                   | 0.090                   | 0                      | 0.0             | 1           | 1                    |
| 13-261-1001 | 2           | F           | NOT IN A CITY | SUMTER   | LESLIE, UNION HIGH<br>SCHOOL               | 1999 | 206         | 245        | 0.103            | 0.098                   | 0.096                   | 0.095                   | 0                      | 0.0             | 1           | 0                    |
| 13-261-1001 | 2           | F           | NOT IN A CITY | SUMTER   | LESLIE, UNION HIGH<br>SCHOOL               | 2000 | 245         | 245        | 0.108            | 0.107                   | 0.098                   | 0.098                   | 0                      | 0.0             | 1           | 0                    |
| 13-261-1001 | 2           | F           | NOT IN A CITY | SUMTER   | SCHOOL                                     | 2001 | 242         | 245        | 0.093            | 0.090                   | 0.090                   | 0.087                   | 0                      | 0.0             | 1           | 3                    |
| 13-261-1001 | 2           | F           | NOT IN A CITY | SUMTER   | LESLIE, UNION HIGH<br>SCHOOL               | 2002 | 221         | 245        | 0.096            | 0.079                   | 0.077                   | 0.075                   | 0                      | 0.0             | 1           | 1                    |