



North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

John E. Skvarla, III
Secretary

December 13, 2013

A. Stanley Meiburg
Acting Regional Administrator
USEPA Region 4
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303-8960

Re: North Carolina's Recommendations for Air Quality Designations for the
2012 Revised Annual Fine Particle Standard

Dear Mr. Meiburg:

I am writing on behalf of Governor Pat McCrory to recommend air quality designation status and related boundaries of areas in North Carolina for the annual fine particulate matter (PM_{2.5}) national ambient air quality standard (NAAQS), pursuant to Section 107(d)(1)(A) of the Clean Air Act (CAA) as amended.

On December 14, 2012, the United States Environmental Protection Agency (EPA) promulgated a revised annual PM_{2.5} NAAQS (78 FR 3086). The EPA strengthened the primary annual PM_{2.5} standard from 15.0 micrograms per cubic meter (µg/m³) to 12.0 µg/m³; retained the existing 24-hour coarse particle (PM₁₀) standard at 150 µg/m³; retained the existing 24-hour PM_{2.5} standard at 35 µg/m³; and retained the current suite of secondary PM standards. The CAA Section 107(d)(1)(A) requires states to submit area designation recommendations to the EPA no later than 1 year after the promulgation of a new or revised NAAQS. The EPA has recommended that states base its boundary recommendations for the revised annual PM_{2.5} standard using air quality data from the three most recent years of monitoring data (2010 - 2012).

North Carolina has operated a robust PM monitoring network with years of measurement, quality-assurance, and data analysis experience. Based on the 2010 – 2012 ambient monitoring data, all counties in North Carolina are below the annual PM_{2.5} NAAQS. Figure 1 illustrates the three year average design values. It is North Carolina's recommendation that, since there is no evidence of violations, all townships in all counties in North Carolina be designated as "attainment" for the revised annual PM_{2.5} standard, as listed in Table 1. We are requesting township level designation due to potential implications for the Prevention of Significant Deterioration permitting program of having an entire county designated as a single area rather than smaller areas (e.g., partial counties).

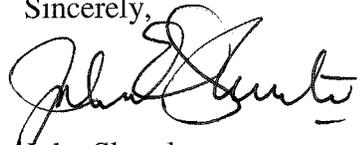
A. Stanley Meiburg
December 13, 2013
Page 2

In the final rule for the revised annual $PM_{2.5}$ standard, the EPA also finalized changes to the ambient air monitoring, reporting, and network design requirements, including the addition of a near-road component to the $PM_{2.5}$ monitoring network. North Carolina is on track to meet the requirements of near-road monitors by January 1, 2017 in urban areas with population greater than or equal to 1.0 million but less than 2.5 million. The EPA has stated that it does not plan to designate near-road environments in this initial designation since three years of quality-assured and certified air quality data are required for designation purposes. We understand there is significant uncertainty in applying the near-road monitoring methodology to area designations. We request the opportunity to review and comment on EPA's approach.

North Carolina requests that EPA also revise the current designations for the 24-hour $PM_{2.5}$ standard so that the annual $PM_{2.5}$ and the 24-hour $PM_{2.5}$ designations are on the township basis.

North Carolina is committed to protecting the health of our citizens and solving our air quality problems. We believe that improving our air quality is critical to the health of our citizens and to our future growth, prosperity and quality of life. We look forward to a continued dialogue with you and your staff as we work together to implement the 2012 $PM_{2.5}$ NAAQS.

Sincerely,

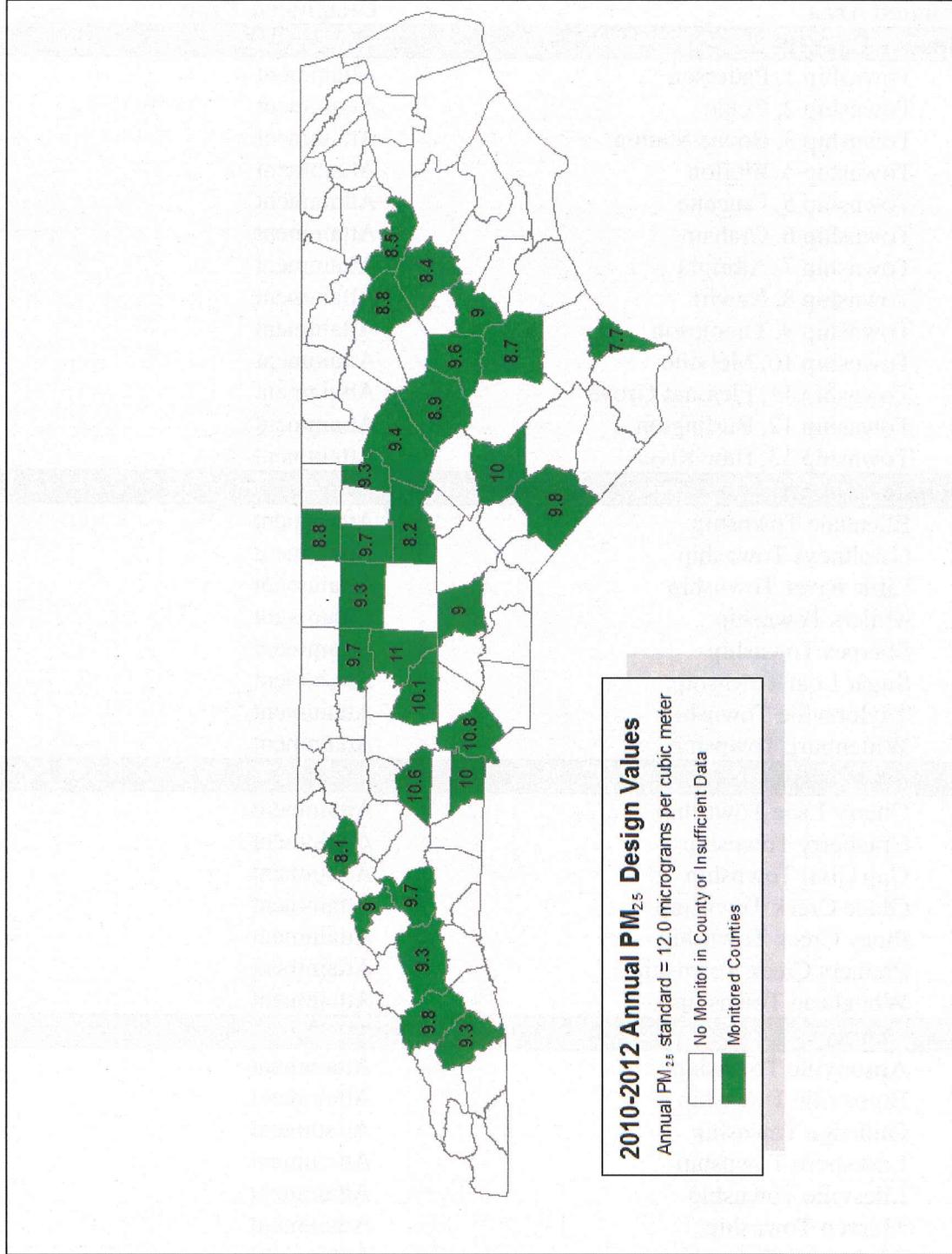


John Skvarla

JS/sch

Attachment

cc: The Honorable Pat McCrory
Ms. Sheila C. Holman
Mr. Drew Elliott
Mr. Scott Davis
Ms. Leslie Rhodes
Mr. David Brigman
Mr. Minor Barnette



Design values represent annual mean measurement, averaged over three years.

A. Stanley Meiburg

December 13, 2013

Table 1 – North Carolina Recommendation for 2012 Annual PM_{2.5} Standard

Page 1

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Alamance County	
Township 1, Patterson	Attainment
Township 2, Coble	Attainment
Township 3, Boone Station	Attainment
Township 4, Morton	Attainment
Township 5, Faucette	Attainment
Township 6, Graham	Attainment
Township 7, Albright	Attainment
Township 8, Newlin	Attainment
Township 9, Thompson	Attainment
Township 10, Melville	Attainment
Township 11, Pleasant Grove	Attainment
Township 12, Burlington	Attainment
Township 13, Haw River	Attainment
Alexander County	
Ellendale Township	Attainment
Gwaltneys Township	Attainment
Little River Township	Attainment
Millers Township	Attainment
Sharpes Township	Attainment
Sugar Loaf Township	Attainment
Taylorsville Township	Attainment
Wittenburg Township	Attainment
Alleghany County	
Cherry Lane Township	Attainment
Cranberry Township	Attainment
Gap Civil Township	Attainment
Glade Creek Township	Attainment
Piney Creek Township	Attainment
Prathers Creek Township	Attainment
Whitehead Township	Attainment
Anson County	
Ansonville Township	Attainment
Burnsville Township	Attainment
Gulledge Township	Attainment
Lanesboro Township	Attainment
Lilesville Township	Attainment
Morven Township	Attainment
Wadesboro Township	Attainment
White Store Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Ashe County	
Chestnut Hill Township	Attainment
Clifton Township	Attainment
Creston Township	Attainment
Elk Township	Attainment
Grassy Creek Township	Attainment
Helton Township	Attainment
Horse Creek Township	Attainment
Hurricane Township	Attainment
Jefferson Township	Attainment
Laurel Township	Attainment
North Fork Township	Attainment
Obids Township	Attainment
Old Fields Township	Attainment
Peak Creek Township	Attainment
Pine Swamp Township	Attainment
Piney Creek Township	Attainment
Pond Mountain Township	Attainment
Walnut Hill Township	Attainment
West Jefferson Township	Attainment
Avery County	
Altamont Township	Attainment
Banner Elk Township	Attainment
Beech Mountain Township	Attainment
Carey's Flat Township	Attainment
Cranberry Township	Attainment
Elk Park Township	Attainment
Frank Township	Attainment
Heaton Township	Attainment
Hughes Township	Attainment
Ingalls Township	Attainment
Linville Township	Attainment
Minneapolis Township	Attainment
Montezuma Township	Attainment
Newland No. 1 Township	Attainment
Newland No. 2 Township	Attainment
Pineola Township	Attainment
Plumtree Township	Attainment
Pyatte Township	Attainment
Roaring Creek Township	Attainment

A. Stanley Meiburg

December 13, 2013

Table 1 – North Carolina Recommendation for 2012 Annual PM_{2.5} Standard

Page 3

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Beaufort County	
Bath Township	Attainment
Chocowinity Township	Attainment
Long Acre Township	Attainment
Pantego Township	Attainment
Richland Township	Attainment
Washington Township	Attainment
Bertie County	
Colerain Township	Attainment
Indian Woods Township	Attainment
Merry Hill Township	Attainment
Mitchell Township	Attainment
Roxobel Township	Attainment
Snakebite Township	Attainment
Whites Township	Attainment
Windsor Township	Attainment
Woodville Township	Attainment
Bladen County	
Abbotts Township	Attainment
Bethel Township	Attainment
Bladenboro Township	Attainment
Brown Marsh Township	Attainment
Carvers Creek Township	Attainment
Central Township	Attainment
Colly Township	Attainment
Cypress Creek Township	Attainment
Elizabethtown Township	Attainment
Frenches Creek Township	Attainment
Hollow Township	Attainment
Lake Creek Township	Attainment
Turnbull Township	Attainment
White Oak Township	Attainment
Whites Creek Township	Attainment
Brunswick County	
Lockwoods Folly Township	Attainment
Northwest Township	Attainment
Shalotte Township	Attainment
Smithville Township	Attainment
Town Creek Township	Attainment
Waccamaw Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Buncombe County	
Grouped Townships	
Asheville Township	
Avery Creek Township	
Limestone Township	Attainment
Lower Hominy Township	
Reems Creek Township	
Swannanoa Township	
Individual Townships	
Black Mountain Township	Attainment
Broad River Township	Attainment
Fairview Township	Attainment
Flat Creek Township	Attainment
French Broad Township	Attainment
Ivy Township	Attainment
Leicester Township	Attainment
Sandy Mush Township	Attainment
Upper Hominy Township	Attainment
Burke County	
Drexel Township	Attainment
Icard Township	Attainment
Jonas Ridge Township	Attainment
Linville Township	Attainment
Lovelady Township	Attainment
Lower Creek Township	Attainment
Lower Fork Township	Attainment
Morganton Township	Attainment
Quaker Meadows Township	Attainment
Silver Creek Township	Attainment
Smoky Creek Township	Attainment
Upper Creek Township	Attainment
Upper Fork Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Cabarrus County	
Township 1, Harrisburg	Attainment
Township 2, Poplar Tent	Attainment
Township 3, Odell	Attainment
Township 4, Kannapolis	Attainment
Township 5, New Gilead	Attainment
Township 6, Rimertown	Attainment
Township 7, Gold Hill	Attainment
Township 8, Mount Pleasant	Attainment
Township 9, Georgeville	Attainment
Township 10, Midland	Attainment
Township 11, Central Cabarrus	Attainment
Township 12, Concord	Attainment
Caldwell County	
Globe Township	Attainment
Hudson Township	Attainment
Johns River Township	Attainment
Kings Creek Township	Attainment
Lenoir Township	Attainment
Little River Township	Attainment
Lovelady Township	Attainment
Lower Creek Township	Attainment
Mulberry Township	Attainment
North Catawba Township	Attainment
Patterson Township	Attainment
Wilson Creek Township	Attainment
Yadkin Valley Township	Attainment
Camden County	
Courthouse Township	Attainment
Shiloh Township	Attainment
South Mills Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Carteret County	
Atlantic Township	Attainment
Beaufort Township	Attainment
Cedar Island Township	Attainment
Davis Township	Attainment
Harkers Island Township	Attainment
Harlowe Township	Attainment
Marshallberg Township	Attainment
Merrimon Township	Attainment
Morehead Township	Attainment
Newport Township	Attainment
Portsmouth Township	Attainment
Sea Level Township	Attainment
Smyrna Township	Attainment
Stacy Township	Attainment
Straits Township	Attainment
White Oak Township	Attainment
Caswell County	
Grouped Townships	
Dan River Township	Attainment
Yanceyville Township	
Individual Townships	
Anderson Township	Attainment
Hightowers Township	Attainment
Leasburg Township	Attainment
Locust Hill Township	Attainment
Milton Township	Attainment
Pelham Township	Attainment
Stoney Creek Township	Attainment
Catawba County	
Bandy's Township	Attainment
Caldwell Township	Attainment
Catawba Township	Attainment
Clines Township	Attainment
Hickory Township	Attainment
Jacobs Fork Township	Attainment
Mountain Creek Township	Attainment
Newton Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Chatham County	
Albright Township	Attainment
Baldwin Township	Attainment
Bear Creek Township	Attainment
Cape Fear Township	Attainment
Center Township	Attainment
Gulf Township	Attainment
Hadley Township	Attainment
Haw River Township	Attainment
Hickory Mountain Township	Attainment
Matthews Township	Attainment
New Hope Township	Attainment
Oakland Township	Attainment
Williams Township	Attainment
Cherokee County	
Beaverdam Township	Attainment
Hothouse Township	Attainment
Murphy Township	Attainment
Notla Township	Attainment
Shoal Creek Township	Attainment
Valleytown Township	Attainment
Chowan County	
Township 1, Edenton	Attainment
Township 2, Middle	Attainment
Township 3, Upper	Attainment
Township 4, Yeopim	Attainment
Clay County	
Brasstown Township	Attainment
Hayesville Township	Attainment
Hiawassee Township	Attainment
Shooting Creek Township	Attainment
Sweetwater Township	Attainment
Tusquittee Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Cleveland County	
River Township	Attainment
Boiling Springs Township	Attainment
Rippy Township	Attainment
Kings Mountain Township	Attainment
Warlick Township	Attainment
Shelby Township	Attainment
Sandy Run Township	Attainment
Polkville Township	Attainment
Double Shoals Township	Attainment
Knob Creek Township	Attainment
Casar Township	Attainment
Columbus County	
Bogue Township	Attainment
Bolton Township	Attainment
Bug Hill Township	Attainment
Cerro Gordo Township	Attainment
Chadbourn Township	Attainment
Fair Bluff Township	Attainment
Lees Township	Attainment
Ransom Township	Attainment
South Williams Township	Attainment
Tatums Township	Attainment
Waccamaw Township	Attainment
Welches Creek Township	Attainment
Western Prong Township	Attainment
Whiteville Township	Attainment
Williams Township	Attainment
Craven County	
Township 1	Attainment
Township 2	Attainment
Township 3	Attainment
Township 5	Attainment
Township 6	Attainment
Township 7	Attainment
Township 8	Attainment
Township 9	Attainment
Cumberland County	
Beaver Dam Township	Attainment
Black River Township	Attainment
Carvers Creek Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Cedar Creek Township	Attainment
Cross Creek Township	Attainment
Eastover Township	Attainment
Grays Creek Township	Attainment
Manchester Township	Attainment
Pearces Mill Township	Attainment
Rockfish Township	Attainment
Seventy-First Township	Attainment
Currituck County	
Crawford Township	Attainment
Fruitville Township	Attainment
Moyock Township	Attainment
Poplar Branch Township	Attainment
Dare County	
Atlantic Township	Attainment
Croatan Township	Attainment
East Lake Township	Attainment
Hatteras Township	Attainment
Kinnakeet Township	Attainment
Nags Head Township	Attainment
Davidson County	
Abbotts Creek Township	Attainment
Alleghany Township	Attainment
Arcadia Township	Attainment
Boone Township	Attainment
Conrad Hill Township	Attainment
Cotton Grove Township	Attainment
Emmons Township	Attainment
Hampton Township	Attainment
Healing Spring Township	Attainment
Jackson Hill Township	Attainment
Lexington Township	Attainment
Midway Township	Attainment
Reedy Creek Township	Attainment
Silver Hill Township	Attainment
Thomasville Township	Attainment
Tyro Township	Attainment
Yadkin College Township	Attainment
Davie County	
Calahaln Township	Attainment
Clarksville Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Farmington Township	Attainment
Fulton Township	Attainment
Jerusalem Township	Attainment
Mocksville Township	Attainment
Shady Grove Township	Attainment
Duplin County	
Albertson Township	Attainment
Cypress Creek Township	Attainment
Faison Township	Attainment
Glisson Township	Attainment
Island Creek Township	Attainment
Kenansville Township	Attainment
Limestone Township	Attainment
Magnolia Township	Attainment
Rockfish Township	Attainment
Rose Hill Township	Attainment
Smith Township	Attainment
Warsaw Township	Attainment
Wolfscrape Township	Attainment
Durham County	
Carr Township	Attainment
Durham Township	Attainment
Lebanon Township	Attainment
Mangum Township	Attainment
Oak Grove Township	Attainment
Triangle Township	Attainment
Edgecombe County	
Township 1, Tarboro	Attainment
Township 2, Lower Conetoe	Attainment
Township 3, Upper Conetoe	Attainment
Township 4, Deep Creek	Attainment
Township 5, Lower Fishing Creek	Attainment
Township 6, Upper Fishing Creek	Attainment
Township 7, Swift Creek	Attainment
Township 8, Sparta	Attainment
Township 9, Otter Creek	Attainment
Township 10, Lower Town Creek	Attainment
Township 11, Walnut Creek	Attainment
Township 12, Rocky Mount	Attainment
Township 13, Cokey	Attainment
Township 14, Upper Town Creek	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Forsyth County	
Grouped Townships	
Abbotts Creek Township	
Broadbay Township	
Kernersville Township	
Middle Fork 1 Township	Attainment
Middle Fork 2 Township	
Old Town Township	
South Fork Township	
Winston Township	
Individual Townships	
Belews Creek Township	Attainment
Bethania Township	Attainment
Clemmonsville Township	Attainment
Lewisville Township	Attainment
Old Richmond Township	Attainment
Salem Chapel Township	Attainment
Vienna Township	Attainment
Franklin County	
Cedar Rock Township	Attainment
Cypress Creek Township	Attainment
Dunn Township	Attainment
Franklinton Township	Attainment
Gold Mine Township	Attainment
Harris Township	Attainment
Hayesville Township	Attainment
Louisburg Township	Attainment
Sandy Creek Township	Attainment
Youngsville Township	Attainment
Gaston County	
Cherryville Township	Attainment
Crowders Mountain Township	Attainment
Dallas Township	Attainment
Gastonia Township	Attainment
Riverbend Township	Attainment
South Point Township	Attainment

A. Stanley Meiburg

December 13, 2013

Table 1 – North Carolina Recommendation for 2012 Annual PM_{2.5} Standard

Page 12

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Gates County	
Gatesville Township	Attainment
Hall Township	Attainment
Haslett Township	Attainment
Holly Grove Township	Attainment
Hunters Mill Township	Attainment
Mintonsville Township	Attainment
Reynoldson Township	Attainment
Graham County	
Cheoah Township	Attainment
Stecoah Township	Attainment
Yellow Creek Township	Attainment
Granville County	
Brassfield Township	Attainment
Dutchville Township	Attainment
Fishing Creek Township	Attainment
Oak Hill Township	Attainment
Oxford Township	Attainment
Salem Township	Attainment
Sassafras Fork Township	Attainment
Tally Ho Township	Attainment
Walnut Grove Township	Attainment
Greene County	
Bull Head Township	Attainment
Carrs Township	Attainment
Hookerton Township	Attainment
Jason Township	Attainment
Olds Township	Attainment
Ormonds Township	Attainment
Shine Township	Attainment
Snow Hill Township	Attainment
Speights Bridge Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Guilford County	
Grouped Townships Bruce Township Center Grove Township Deep River Township Fentress Township Friendship Township Gilmer Township High Point Township Jamestown Township Jefferson Township Monroe Township Morehead Township Sumner Township	Attainment
Individual Townships Clay Township Greene Township Madison Township Oak Ridge Township Rock Creek Township Washington Township	Attainment Attainment Attainment Attainment Attainment Attainment
Halifax County	
Brinkleyville Township Butterwood Township Conoconnara Township Enfield Township Faucett Township Halifax Township Littleton Township Palmyra Township Roanoke Rapids Township Roseneath Township Scotland Neck Township Weldon Township	Attainment Attainment Attainment Attainment Attainment Attainment Attainment Attainment Attainment Attainment Attainment Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Harnett County	
Anderson Creek Township	Attainment
Averasboro Township	Attainment
Barbecue Township	Attainment
Black River Township	Attainment
Buckhorn Township	Attainment
Duke Township	Attainment
Grove Township	Attainment
Hectors Creek Township	Attainment
Johnsonville Township	Attainment
Lillington Township	Attainment
Neills Creek Township	Attainment
Stewarts Creek Township	Attainment
Upper Little River Township	Attainment
Haywood County	
Beaverdam Township	Attainment
Cataloochee Township	Attainment
Cecil Township	Attainment
Clyde Township	Attainment
Crabtree Township	Attainment
East Fork Township	Attainment
Fines Creek Township	Attainment
Iron Duff Township	Attainment
Ivy Hill Township	Attainment
Jonathan Creek Township	Attainment
Pigeon Township	Attainment
Waynesville Township	Attainment
White Oak Township	Attainment
Henderson County	
Blue Ridge Township	Attainment
Clear Creek Township	Attainment
Crab Creek Township	Attainment
Edneyville Township	Attainment
Green River Township	Attainment
Hendersonville Township	Attainment
Hoopers Creek Township	Attainment
Mills River Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Hertford County	
Ahoskie Township	Attainment
Harrellsville Township	Attainment
Maneys Neck Township	Attainment
Murfreesboro Township	Attainment
St. Johns Township	Attainment
Winton Township	Attainment
Hoke County	
Allendale Township	Attainment
Antioch Township	Attainment
Blue Springs Township	Attainment
Fort Bragg Military Reservation Township	Attainment
McLauchlin Township	Attainment
Quewhiffle Township	Attainment
Raeford Township	Attainment
Stonewall Township	Attainment
Hyde County	
Currituck Township	Attainment
Fairfield Township	Attainment
Lake Landing Township	Attainment
Lake Mattamuskeet UT	Attainment
Ocracoke Township	Attainment
Swan Quarter Township	Attainment
Iredell County	
Barringer Township	Attainment
Bethany Township	Attainment
Chambersburg Township	Attainment
Coddle Creek Township	Attainment
Concord Township	Attainment
Cool Springs Township	Attainment
Davidson Township	Attainment
Eagle Mills Township	Attainment
Fallstown Township	Attainment
New Hope Township	Attainment
Olin Township	Attainment
Sharpesburg Township	Attainment
Shiloh Township	Attainment
Statesville Township	Attainment
Turnersburg Township	Attainment
Union Grove Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Jackson County	
Barkers Creek Township	Attainment
Canada Township	Attainment
Caney Fork Township	Attainment
Cashiers Township	Attainment
Cullowhee Township	Attainment
Dillsboro Township	Attainment
Greens Creek Township	Attainment
Hamburg Township	Attainment
Mountain Township	Attainment
Qualla Township	Attainment
River Township	Attainment
Savannah Township	Attainment
Scott Creek Township	Attainment
Sylva Township	Attainment
Webster Township	Attainment
Johnston County	
Banner Township	Attainment
Bentonville Township	Attainment
Beulah Township	Attainment
Boon Hill Township	Attainment
Clayton Township	Attainment
Cleveland Township	Attainment
Elevation Township	Attainment
Ingrams Township	Attainment
Meadow Township	Attainment
Micro Township	Attainment
O'Neals Township	Attainment
Pine Level Township	Attainment
Pleasant Grove Township	Attainment
Selma Township	Attainment
Smithfield Township	Attainment
Wilders Township	Attainment
Wilson Mills Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Jones County	
Township 1, White Oak	Attainment
Township 2, Pollocksville	Attainment
Township 3, Trenton	Attainment
Township 4, Cypress Creek	Attainment
Township 5, Tuckahoe	Attainment
Township 6, Chinquapin	Attainment
Township 7, Beaver Creek	Attainment
Lee County	
Township 1, Greenwood	Attainment
Township 2, Jonesboro	Attainment
Township 3, Cape Fear	Attainment
Township 4, Deep River	Attainment
Township 5, East Sanford	Attainment
Township 6, West Sanford	Attainment
Township 7, Pocket	Attainment
Lenoir County	
Contentnea Neck Township	Attainment
Falling Creek Township	Attainment
Institute Township	Attainment
Kinston Township	Attainment
Moseley Hall Township	Attainment
Neuse Township	Attainment
Pink Hill Township	Attainment
Sand Hill Township	Attainment
Southwest Township	Attainment
Trent Township	Attainment
Vance Township	Attainment
Woodington Township	Attainment
Lincoln County	
Catawba Springs Township	Attainment
Howards Creek Township	Attainment
Ironton Township	Attainment
Lincolnton Township	Attainment
North Brook Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Macon County	
Burningtown Township	Attainment
Cartoogechaye Township	Attainment
Cowee Township	Attainment
Ellijay Township	Attainment
Flats Township	Attainment
Franklin Township	Attainment
Highlands Township	Attainment
Millshoal Township	Attainment
Nantahala Township	Attainment
Smithbridge Township	Attainment
Sugarfork Township	Attainment
Madison County	
Township 1, North Marshall	Attainment
Township 1, South Marshall	Attainment
Township 2, Laurel	Attainment
Township 3, Mars Hill	Attainment
Township 4, Beech Glenn	Attainment
Township 5, Walnut	Attainment
Township 6, Hot Springs	Attainment
Township 7, Ebbs Chapel	Attainment
Township 8, Spring Creek	Attainment
Township 9, Sandy Mush	Attainment
Township 10, Grapevine	Attainment
Township 11, Revere-Rice Cove	Attainment
Martin County	
Beargrass Township	Attainment
Cross Roads Township	Attainment
Goose Nest Township	Attainment
Griffins Township	Attainment
Hamilton Township	Attainment
Jamesville Township	Attainment
Poplar Point Township	Attainment
Robersonville Township	Attainment
Williams Township	Attainment
Williamston Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
McDowell County	
Brackett Township	Attainment
Crooked Creek Township	Attainment
Dysartsville Township	Attainment
Glenwood Township	Attainment
Higgins Township	Attainment
Marion Township	Attainment
Montford Cove Township	Attainment
Nebo Township	Attainment
North Cove Township	Attainment
Old Fort Township	Attainment
Mecklenburg County	
Grouped Townships	
Township 1, Charlotte	
Township 2, Berryhill	
Township 5, Providence	Attainment
Township 7, Crab Orchard	
Township 12, Paw Creek	
Individual Townships	
Township 3, Steele Creek	Attainment
Township 6, Clear Creek	Attainment
Township 8, Mallard Creek	Attainment
Township 9, Deweese	Attainment
Township 10, Lemley	Attainment
Township 11, Long Creek	Attainment
Township 13, Morning Star	Attainment
Township 14, Pineville	Attainment
Township 15, Huntersville	Attainment
Mitchell County	
Bakersville Township	Attainment
Bradshaw Township	Attainment
Cane Creek Township	Attainment
Fork Mountain-Little Rock Creek Township	Attainment
Grassy Creek Township	Attainment
Harrell Township	Attainment
Poplar Township	Attainment
Red Hill Township	Attainment
Snow Creek Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Montgomery County	
Biscoe Township	Attainment
Cheek Creek Township	Attainment
Eldorado Township	Attainment
Little River Township	Attainment
Mount Gilead Township	Attainment
Ophir Township	Attainment
Pee Dee Township	Attainment
Rocky Springs Township	Attainment
Star Township	Attainment
Troy Township	Attainment
Uwharrie Township	Attainment
Moore County	
Township 1, Carthage	Attainment
Township 2, Bensalem	Attainment
Township 3, Sheffield	Attainment
Township 4, Ritter	Attainment
Township 5, Deep River	Attainment
Township 6, Greenwood	Attainment
Township 7, McNeill	Attainment
Township 8, Sandhills	Attainment
Township 9, Mineral Springs	Attainment
Township 10, Little River	Attainment
Nash County	
Bailey Township	Attainment
Castalia Township	Attainment
Coopers Township	Attainment
Dry Wells Township	Attainment
Ferrells Township	Attainment
Griffins Township	Attainment
Jackson Township	Attainment
Mannings Township	Attainment
Nashville Township	Attainment
North Whitakers Township	Attainment
Oak Level Township	Attainment
Red Oak Township	Attainment
Rocky Mount Township	Attainment
South Whitakers Township	Attainment
Stony Creek Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
New Hanover County	
Grouped Townships	
Harnett Township	Attainment
Masonboro Township	
Wilmington Township	
Individual Townships	
Cape Fear Township	Attainment
Federal Point Township	Attainment
Northampton County	
Gaston Township	Attainment
Jackson Township	Attainment
Kirby Township	Attainment
Oconeechee Township	Attainment
Pleasant Hill Township	Attainment
Rich Square Township	Attainment
Roanoke Township	Attainment
Seaboard Township	Attainment
Wiccacanee Township	Attainment
Onslow County	
Camp Lejeune UT	Attainment
Hofmann Forest UT	Attainment
Jacksonville Township	Attainment
Richlands Township	Attainment
Stump Sound Township	Attainment
Swansboro Township	Attainment
White Oak Township	Attainment
Orange County	
Bingham Township	Attainment
Cedar Grove Township	Attainment
Chapel Hill Township	Attainment
Cheeks Township	Attainment
Eno Township	Attainment
Hillsborough Township	Attainment
Little River Township	Attainment
Pamlico County	
Township 1	Attainment
Township 2	Attainment
Township 3	Attainment
Township 4	Attainment
Township 5	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Pasquotank County	
Elizabeth City Township	Attainment
Mount Hermon Township	Attainment
Newland Township	Attainment
Nixonton Township	Attainment
Providence Township	Attainment
Salem Township	Attainment
Pender County	
Burgaw Township	Attainment
Canetuck Township	Attainment
Caswell Township	Attainment
Columbia Township	Attainment
Grady Township	Attainment
Holly Township	Attainment
Long Creek Township	Attainment
Rocky Point Township	Attainment
Topsail Township	Attainment
Union Township	Attainment
Perquimans County	
Belvidere Township	Attainment
Bethel Township	Attainment
Hertford Township	Attainment
New Hope Township	Attainment
Parkville Township	Attainment
Person County	
Allensville Township	Attainment
Bushy Fork Township	Attainment
Cunningham Township	Attainment
Flat River Township	Attainment
Holloway Township	Attainment
Mount Tirzah Township	Attainment
Olive Hill Township	Attainment
Roxboro Township	Attainment
Woodsdale Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Pitt County	
Arthur Township	Attainment
Ayden Township	Attainment
Belvoir Township	Attainment
Bethel Township	Attainment
Carolina Township	Attainment
Chicod Township	Attainment
Falkland Township	Attainment
Farmville Township	Attainment
Fountain Township	Attainment
Greenville Township	Attainment
Grifton Township	Attainment
Grimesland Township	Attainment
Pactolus Township	Attainment
Swift Creek Township	Attainment
Winterville Township	Attainment
Polk County	
Columbus Township	Attainment
Cooper Gap Township	Attainment
Green Creek Township	Attainment
Saluda Township	Attainment
Tryon Township	Attainment
White Oak Township	Attainment

A. Stanley Meiburg

December 13, 2013

Table 1 – North Carolina Recommendation for 2012 Annual PM_{2.5} Standard

Page 24

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Randolph County	
Asheboro Township	Attainment
Back Creek Township	Attainment
Brower Township	Attainment
Cedar Grove Township	Attainment
Coleridge Township	Attainment
Columbia Township	Attainment
Concord Township	Attainment
Franklinville Township	Attainment
Grant Township	Attainment
Level Cross Township	Attainment
Liberty Township	Attainment
New Hope Township	Attainment
New Market Township	Attainment
Pleasant Grove Township	Attainment
Providence Township	Attainment
Randleman Township	Attainment
Richland Township	Attainment
Tabernacle Township	Attainment
Trinity Township	Attainment
Union Township	Attainment
Richmond County	
Beaverdam Township	Attainment
Black Jack Township	Attainment
Marks Creek Township	Attainment
Mineral Springs Township	Attainment
Rockingham Township	Attainment
Steeles Township	Attainment
Wolf Pit Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Robeson County	
Alfordsville Township	Attainment
Back Swamp Township	Attainment
Britts Township	Attainment
Burnt Swamp Township	Attainment
East Howellsville Township	Attainment
Fairmont Township	Attainment
Gaddys Township	Attainment
Lumber Bridge Township	Attainment
Lumberton Township	Attainment
Maxton Township	Attainment
Orrum Township	Attainment
Parkton Township	Attainment
Pembroke Township	Attainment
Philadelphus Township	Attainment
Raft Swamp Township	Attainment
Red Springs Township	Attainment
Rennert Township	Attainment
Rowland Township	Attainment
Saddletree Township	Attainment
St. Pauls Township	Attainment
Shannon Township	Attainment
Smiths Township	Attainment
Smyrna Township	Attainment
Sterlings Township	Attainment
Thompson Township	Attainment
Union Township	Attainment
West Howellsville Township	Attainment
Whitehouse Township	Attainment
Wisharts Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Rockingham County	
Huntsville Township	Attainment
Leaksville Township	Attainment
Madison Township	Attainment
Mayo Township	Attainment
New Bethel Township	Attainment
Price Township	Attainment
Reidsville Township	Attainment
Ruffin Township	Attainment
Simpsonville Township	Attainment
Wentworth Township	Attainment
Williamsburg Township	Attainment
Rowan County	
Atwell Township	Attainment
China Grove Township	Attainment
Cleveland Township	Attainment
Franklin Township	Attainment
Gold Hill Township	Attainment
Litaker Township	Attainment
Locke Township	Attainment
Morgan Township	Attainment
Mount Ulla Township	Attainment
Providence Township	Attainment
Salisbury Township	Attainment
Scotch Irish Township	Attainment
Steele Township	Attainment
Unity Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Rutherford County	
Camp Creek Township	Attainment
Chimney Rock Township	Attainment
Colfax Township	Attainment
Cool Spring Township	Attainment
Duncans Creek Township	Attainment
Gilkey Township	Attainment
Golden Valley Township	Attainment
Green Hill Township	Attainment
High Shoals Township	Attainment
Logan Store Township	Attainment
Morgan Township	Attainment
Rutherfordton Township	Attainment
Sulphur Springs Township	Attainment
Union Township	Attainment
Sampson County	
Belvoir Township	Attainment
Dismal Township	Attainment
Franklin Township	Attainment
Halls Township	Attainment
Herring Township	Attainment
Honeycutt Township	Attainment
Lisbon Township	Attainment
Little Coharie Township	Attainment
McDaniels Township	Attainment
Mingo Township	Attainment
Newton Grove Township	Attainment
North Clinton Township	Attainment
Piney Grove Township	Attainment
Plain View Township	Attainment
South Clinton Township	Attainment
South River Township	Attainment
Taylor's Bridge Township	Attainment
Turkey Township	Attainment
Westbrook Township	Attainment
Scotland County	
Laurel Hill Township	Attainment
Spring Hill Township	Attainment
Stewartsville Township	Attainment
Williamson Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Stanly County	
Almond Township	Attainment
Big Lick Township	Attainment
Center Township	Attainment
Endy Township	Attainment
Furr Township	Attainment
Harris Township	Attainment
North Albemarle Township	Attainment
Ridenhour Township	Attainment
South Albemarle Township	Attainment
Tyson Township	Attainment
Stokes County	
Beaver Island Township	Attainment
Big Creek Township	Attainment
Danbury Township	Attainment
Meadows Township	Attainment
Peters Creek Township	Attainment
Quaker Gap Township	Attainment
Sauratown Township	Attainment
Snow Creek Township	Attainment
Yadkin Township	Attainment
Surry County	
Bryan Township	Attainment
Dobson Township	Attainment
Eldora Township	Attainment
Elkin Township	Attainment
Franklin Township	Attainment
Long Hill Township	Attainment
Marsh Township	Attainment
Mount Airy Township	Attainment
Pilot Township	Attainment
Rockford Township	Attainment
Shoals Township	Attainment
Siloam Township	Attainment
South Westfield Township	Attainment
Stewarts Creek Township	Attainment
Westfield Township	Attainment
Swain County	
Charleston Township	Attainment
Forneys Creek UT	Attainment
Nantahala Township	Attainment

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Transylvania County	
Boyd Township	Attainment
Brevard Township	Attainment
Catheys Creek Township	Attainment
Dunns Rock Township	Attainment
Eastatoe Township	Attainment
Gloucester Township	Attainment
Hogback Township	Attainment
Little River Township	Attainment
Tyrrell County	
Alligator Township	Attainment
Columbia Township	Attainment
Gum Neck Township	Attainment
Scuppernong Township	Attainment
South Fork Township	Attainment
Union County	
Buford Township	Attainment
Goose Creek Township	Attainment
Jackson Township	Attainment
Lanes Creek Township	Attainment
Marshville Township	Attainment
Monroe Township	Attainment
New Salem Township	Attainment
Sandy Ridge Township	Attainment
Vance Township	Attainment
Vance County	
Dabney Township	Attainment
Henderson Township	Attainment
Kittrell Township	Attainment
Middleburg Township	Attainment
Sandy Creek Township	Attainment
Townsville Township	Attainment
Watkins Township	Attainment
Williamsboro Township	Attainment

A. Stanley Meiburg

December 13, 2013

Table 1 – North Carolina Recommendation for 2012 Annual PM_{2.5} Standard

Page 30

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Wake County	
Grouped Townships Cary Township Meredith Township	Attainment
Individual Townships Bartons Creek Township	Attainment
Buckhorn Township	Attainment
Cedar Fork Township	Attainment
Holly Springs Township	Attainment
House Creek Township	Attainment
Leesville Township	Attainment
Little River Township	Attainment
Marks Creek Township	Attainment
Middle Creek Township	Attainment
Neuse Township	Attainment
New Light Township	Attainment
Panther Branch Township	Attainment
Raleigh Township	Attainment
St. Marys Township	Attainment
St. Matthews Township	Attainment
Swift Creek Township	Attainment
Wake Forest Township	Attainment
White Oak Township	Attainment
Warren County	
Fishing Creek Township	Attainment
Fork Township	Attainment
Hawtree Township	Attainment
Judkins Township	Attainment
Nutbush Township	Attainment
River Township	Attainment
Roanoke Township	Attainment
Sandy Creek Township	Attainment
Shocco Township	Attainment
Sixpound Township	Attainment
Smith Creek Township	Attainment
Warrenton Township	Attainment

A. Stanley Meiburg

December 13, 2013

Table 1 – North Carolina Recommendation for 2012 Annual PM_{2.5} Standard

Page 31

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Washington County	
Lees Mill Township	Attainment
Plymouth Township	Attainment
Scuppernong Township	Attainment
Skinnerville Township	Attainment
Watauga County	
Bald Mountain Township	Attainment
Beaverdam Township	Attainment
Blowing Rock Township	Attainment
Blue Ridge Township	Attainment
Boone Township	Attainment
Brushy Fork Township	Attainment
Cove Creek Township	Attainment
Elk Township	Attainment
Laurel Creek Township	Attainment
Meat Camp Township	Attainment
New River Township	Attainment
North Fork Township	Attainment
Shawneehaw Township	Attainment
Stony Fork Township	Attainment
Watauga Township	Attainment
Wayne County	
Brogden Township	Attainment
Buck Swamp Township	Attainment
Fork Township	Attainment
Goldsboro Township	Attainment
Grantham Township	Attainment
Great Swamp Township	Attainment
Indian Springs Township	Attainment
Nahunta Township	Attainment
New Hope Township	Attainment
Pikeville Township	Attainment
Saulston Township	Attainment
Stoney Creek Township	Attainment

A. Stanley Meiburg

December 13, 2013

Table 1 – North Carolina Recommendation for 2012 Annual PM_{2.5} Standard

Page 32

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Wilkes County	
Antioch Township	Attainment
Beaver Creek Township	Attainment
Boomer Township	Attainment
Brushy Mountain Township	Attainment
Edwards Township	Attainment
Elk Township	Attainment
Jobs Cabin Township	Attainment
Lewis Fork Township	Attainment
Lovelace Township	Attainment
Moravian Falls Township	Attainment
Mulberry Township	Attainment
New Castle Township	Attainment
North Wilkesboro Township	Attainment
Reddies River Township	Attainment
Rock Creek Township	Attainment
Somers Township	Attainment
Stanton Township	Attainment
Traphill Township	Attainment
Union Township	Attainment
Walnut Grove Township	Attainment
Wilkesboro Township	Attainment
Wilson County	
Black Creek Township	Attainment
Cross Roads Township	Attainment
Gardners Township	Attainment
Old Fields Township	Attainment
Saratoga Township	Attainment
Springhill Township	Attainment
Stantonsburg Township	Attainment
Taylors Township	Attainment
Toisnot Township	Attainment
Wilson Township	Attainment

A. Stanley Meiburg

December 13, 2013

Table 1 – North Carolina Recommendation for 2012 Annual PM_{2.5} Standard

Page 33

North Carolina Recommendation for Annual PM_{2.5} Standard

Designated Area	Designated Type
Yadkin County	
Boonville Township	Attainment
Deep Creek Township	Attainment
East Bend Township	Attainment
Forbush Township	Attainment
North Buck Shoals Township	Attainment
North Fall Creek Township	Attainment
North Knobs Township	Attainment
North Liberty Township	Attainment
South Buck Shoals Township	Attainment
South Fall Creek Township	Attainment
South Knobs Township	Attainment
South Liberty Township	Attainment
Yancey County	
Brush Creek Township	Attainment
Burnsville Township	Attainment
Cane River Township	Attainment
Crabtree Township	Attainment
Egypt Township	Attainment
Green Mountain Township	Attainment
Jacks Creek Township	Attainment
Pensacola Township	Attainment
Price Creek Township	Attainment
Ramseytown Township	Attainment
South Toe Township	Attainment