

Addendum: Quality Assurance Project Plan for the PM<sub>2.5</sub>  
Chemical Speciation Sampling at Trends, NCore,  
Supplemental and Tribal Sites, EPA-454/B-12-003, June  
2012.

Section No. 1  
Revision 1.2.1  
5/15/2014

The underlying Addendum corrects pagination, inserts the signed signature block for OAQPS, and for convenience, consolidates onto the same page, all of the signature blocks from the 10 EPA regions.

There were originally 8 pages which was errantly divided into 3 subsections. The first page (“Page 1 of 7”) now becomes “Page 1 of 3.” The misnomered “Page 2 of 7” followed by “Pages 1-5 of 7” are consolidated into “Page 2 of 3”. The last page of Section No. 1 was also erroneously numbered “Page 1 of 7” and it now becomes “Page 3 of 3”

The original posted version of this QAPP inadvertently omitted the page containing the signed OAQPS signature block, and a 10 scanned pages each containing a Region’s signature block was electronically shrank and placed two per document page. Original hard copies of all signatures will continue to reside with the OAQPS Quality Assurance Lead for the Chemical Speciation Network, US EPA, Research Triangle Park, North Carolina.

Pages “i-vii” of the QAPP’s introductory materials were not revised or amended and are therefore omitted here for brevity.

This revision will be incorporated into the QAPP in its next formal revision.

For further information contact Dennis Crumpler ([crumpler.dennis@epa.gov](mailto:crumpler.dennis@epa.gov)).



# **Quality Assurance Guidance Document**

**Quality Assurance Project Plan:  
PM<sub>2.5</sub> Chemical Speciation Sampling at Trends,  
NCore, Supplemental and Tribal Sites**

**(An Update to the PM<sub>2.5</sub> Speciation Trends  
Network Field Sampling QAPP, December 2000)**

EPA-454/B-12-003  
June 2012

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PM<sub>2.5</sub> Chemical Speciation Sampling at  
Trends, NCore, Supplemental and Tribal Sites**

**(An Update to the PM<sub>2.5</sub> Speciation Trends  
Network Field Sampling QAPP,  
December 2000)**

By:  
Ambient Air Monitoring Group,  
Air Quality Assessment Division  
US EPA, Office of Air Quality Planning and Standards  
Research Triangle Park, North Carolina

## 1.0 QA Project Plan Identification and Approval

**Title:** Quality Assurance Project Plan: PM<sub>2.5</sub> Chemical Speciation Sampling at NCore Sites, and State, local and Tribal Supplemental Sites

### 1.1 The EPA-Approved PM<sub>2.5</sub> Chemical Speciation Network (CSN) QAPP

#### **Category:** *Category 1*

By signing below, the Environmental Protection Agency's (EPA's) Office of Air Quality Planning and Standards' (OAQPS) Ambient Monitoring Program and Quality Assurance Leads and Managers have found the underlying Quality Assurance Project Plan (QAPP) to provide sufficient detail in quality assurance (QA) and quality control (QC) procedures, sampling and analytical procedures, and data management as to be directly adoptable by reference by any state, local or Tribal (SLT) monitoring agency for the purpose of conducting monitoring of chemically speciated particulate matter with a aerodynamic diameter of 2.5 microns (PM<sub>2.5</sub>) and reporting same in units micrograms per cubic meter of air sampled. Signature by a Regional representative, such as a QA manager or monitoring program manager or their delegated designee, signifies concurrence with all aspects of this QAPP.

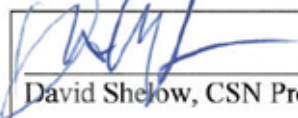
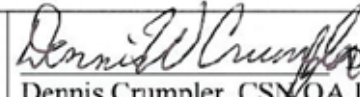
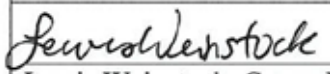
An example submittal form for adopting the "EPA-Approved QAPP version 1.2.0," or revising it and acquiring EPA Regional approval or acknowledgement is provided in Section 1.2. Each monitoring agency may choose to adopt this QAPP in its entirety, revise it as necessary for its specific needs, or develop a completely new QAPP to better fit with the implementation of their quality system. In some Regions, states have been delegated full signature authority for QAPP approvals through a priori approval of their Quality Management Plans (QMPs). In this case, the SLT would have to sign the signature page and the Region would retain a copy in their files.

In those Regions where final approval authority has not been delegated, the Regional Monitoring Program and QA managers should approve any SLT adoption or revisions to the QAPP on the signature page that is provided. In the latter case, the monitoring agency should submit the revised QAPP or a list of modifications to the "EPA Approved" QAPP, to their respective EPA Regional Monitoring Program Office with supporting documentation that the revisions fully meet the quality system objectives set out in this network QAPP. When signed, these forms are to be kept in the permanent records of the EPA Regional Office.

## CSN QAPP Version 1.2.0 Approvals


The signatures on this page have been digitally reproduced from individual signature pages which are on file at OAQPS.

### OAQPS Approvals

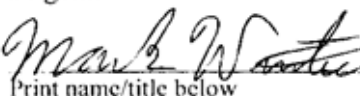
|  |  |
|--|--|
| <br>Date <u>6/6/12</u><br>David Shelow, CSN Program Lead      | <br>Date <u>6/6/2012</u><br>Dennis Crumpler, CSN QA Lead |
| <br>Date <u>6/6/12</u><br>Lewis Weinstock, Group Leader, AAMG |  |

### Regional Concurrence/Approvals


Region 1

  
 Date 6/5/12  
 Print name/title below  
 Katrina Kipp, manager, Ecosystems Assessment Unit

Region 2

  
 Date June 4, 2012  
 Print name/title below  
 Mark Winter, Environmental Engineer


Region 3

  
 Date 6/5/12  
 Kia Hence - QA Coordinator, Air Protection Division

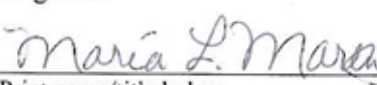
Region 4

  
 Date 06/04/12  
 Laura Ackerman, SAS Chief


Region 5

  
 Date 6-4-12  
 Print name/title below  
 Bilal Qazzaz, Quality Assurance Coordinator

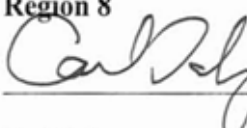
Region 6

  
 Date 6/5/12  
 Print name/title below  
 Maria L. Martinez/Chief, Air Quality Analysis Section


Region 7

  
 Date 06/06/12  
 Print name/title below  
 MICHAEL F. DAVIS, CARB BRANCH CHIEF


Region 8

  
 Date 6/5/2012  
 Carl Daly  
 Director, Air Program

Region 9

  
 Date 6/4/12  
 Print name/title below  
 for Eugene McNoughton

Region 10

  
 Date 6/5/12  
 Print name/title below  
 CHRIS HALL / ENV. SCI.

## 1.2 Adoption of the EPA-Approved CSN QAPP Revision 1.2.0 or Adoption of a Revision of the CSN QAPP by a Monitoring Agency (This page is retained by the EPA Regional Office)

By signing below, the Monitoring Agency commits to implement either: (check one)

- ☐ The CSN Quality Assurance Project Plan Revision 1.2.0, dated \_\_\_\_\_ approved by EPA; or
- ☐ The \_\_\_\_\_ CSN Quality Assurance Project Plan submitted herein, with all  
Agency Name  
deviations from the “EPA-Approved CSN QAPP Revision 1.2.0” approved by EPA clearly  
identified, and documentation supporting the proposition that all revisions provide equivalent or  
better quality monitoring data.

### Delegated QAPP Approval Authority

- ☐ The \_\_\_\_\_ has been delegated full QAPP Approval and signature authority  
Agency Name  
by EPA Region \_\_\_\_\_.

### State/Local/Tribal Agency

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
PM<sub>2.5</sub> Speciation Monitoring Coordinator

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Quality Assurance Officer

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Air Program Director

### EPA Regional Office Acknowledgement or Approval

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
PM<sub>2.5</sub> Speciation Monitoring Coordinator

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Quality Assurance Manager

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Grants, Audits & Procurement Program Director