

Reporting Audits and Monthly Parameter Checks of PM_{2.5} Chemical Speciation Samplers

The Chemical Speciation Network (CSN) Quality Assurance Project Plan (QAPP), June 2012 revision, see http://www.epa.gov/ttn/amtic/files/ambient/pm25/spec/CSN_QAPP_v120_05-2012.pdf, calls for monthly performance verifications by operators and semiannual "audits," of the sampler performance and operator activities. Generally the audits are performed by an "independent" auditor, which has been defined by EPA as being separated from the operation of the sampler by two levels of management. Many States and several local and Tribal agencies utilize "independent" auditing groups. Flow Audit data is supposed to be entered into the Air Quality System (AQS) data base to enable calculation of precision and bias of routine sampling data. A uniform procedure for conducting audits and reporting format is critical for consistency of the audit data and its use in assessment of routine ambient sampling data. The EPA has therefore created a set of audit techniques and procedures, worksheets and electronic reporting forms for the PM_{2.5} Chemical Speciation Network.

The National Air Data Group is reengineering the QA data storage, retrieval and reporting utilities in AQS. Eventually audit and verification data acquired by SLT auditors will be entered by the auditing organization. This capability will not be fully available until the spring of 2014. Until that time, the easiest way for agencies to get their audit information on AQS is to use the RTI's Air QA website <https://airqa.rti.org>. They will need to register on the website and inform Ed Rickman eer@rti.org so he can assign the appropriate access.

The auditors will download the audit spreadsheet template, complete one for each audit, and then load it back to the Website. I have incorporated the initial instructions on how to get to the download and upload instructions.

EPA has developed an integrated course covering the field set-up and operation of the Met One SASS or SuperSASS, and the URG 3000N Carbon sampler, and auditing of these and the IMPROVE sampler**. This information can be found at <http://www.epa.gov/ttn/amtic/spectraining.html> and <http://www.epa.gov/ttn/amtic/specguid.html>.

The course covers:

- A basic background of PM_{2.5} Speciation Sampling
- Set-up and calibration of the Met One SASS and SuperSASS, and URG 3000N
- Programming samplers for a typical sampling event,
- Filter handling and shipping procedures and
- All aspects of siting criteria, field auditing (flow, temperature, and pressure checks)
- Use of Reference Standards to audit and verify flow rates, temperature and barometric pressure readings
- Reporting monthly performance verifications and audit results
- Troubleshooting, and
- Fundamental Safety issues for auditors

** Note that auditing IMPROVE sites and samplers should not be attempted unless the auditor has completed an IMPROVE Auditor Full Certification Course.

- Home
- Contact Us
- CSN Audit Repository
- CSN Results

Welcome to the QA Website

The purpose of this website is to facilitate QA data collected as part of RTI's air monitoring support programs, including Chemical Speciation Monitoring.

RTI is no longer responsible for activities in the Pb-PEP, PM2.5-PEP, AA-PGVP, and Training Records programs. These programs have been transferred to <https://www.sdas.battelle.org/AirQA>. RTI remains responsible for Chemical Speciation activities and this site should continue to be used for Chemical Speciation activities.

[Click here](#) to view the Terms of Use for this site.

[Click here](#) to log into the site. If you do not have an account, [click here](#) to register.

CSN Audit Repository	CSN Results
--------------------------------------	-----------------------------

Register First

[Home](#) [Contact Us](#) [CSN Audit Repository](#) [CSN Results](#)

Copyright 2008, 2009, 2013 by RTI International [Terms Of Use](#)

URL for
AirQAWebsite

- Home
- Contact Us
- CSN Audit Repository
- CSN Results

CSN Audit Repository

This site is a data staging area for the US EPA's Chemical Speciation Network (CSN) sampler audit and flow check data. It has been developed by RTI International under contract to US EPA, OAQPS (contract number EP-D-08-047).

Final data, after QA review, will be posted to EPA's Air Quality System. Because the data on this site have not undergone final QA review, they should be considered DRAFT and should not be cited or quoted.

Information on this site is intended for the sole use of site auditors and program personnel. All other uses are prohibited.

[Click here](#) to start uploading, editing, and downloading data files.

[Click here for help with uploading, editing, and downloading data files.](#)

Start here to read instructions



[Home](#) [Contact Us](#) [CSN Audit Repository](#) [CSN Results](#)

Copyright 2008, 2009, 2013 by RTI International [Terms Of Use](#)

URL for AirQAWebsite