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 PM2 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 QAwebsite 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 down load 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 down load 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.

Log Out Dennis Crumpler

Monday, September 16, 2013

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

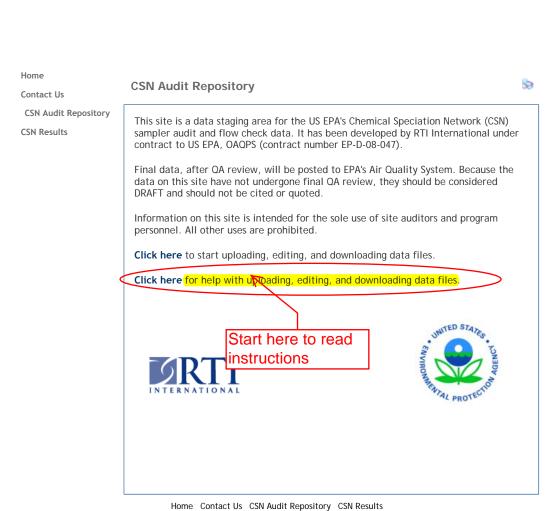
Register First

Home Contact Us CSN Audit Repository CSN Results

Copyright 2008, 2009, 2013 by RTI International Terms Of Use

URL for AirQAWebsite Log Out Dennis Crumpler

Monday, September 16, 2013



Copyright 2008, 2009, 2013 by RTI International Terms Of Use

