

Guidance on Hi Volume Samplers

Summary of Changes Based on Public Comments

During the public comment period for the Wisconsin Department of Natural Resources proposed program guidance titled “guidance on Hi Volume Samplers”, several comments were received, verbally and by email. Comments indicated the proposed approach is reasonable, but needed minor clarifications.

Summary of comments:

Comment: Concern was expressed that the changes were difficult to understand.

Response: WDNR worked with the commenter to provide additional detail and instruction to the commenter’s satisfaction. WDNR will continue to work with facilities and consultants to answer any questions regarding the guidance and spreadsheet tools. No major changes to the document were needed as a result of the comment.

Comment: Why are the IC (corrected chart reading) calculated values in the WDNR spreadsheet different from IC calculations using Tisch spreadsheets?

Response: The Tisch spreadsheet in question was for TSP mass flow controlled samplers. It uses an orifice calibrated in terms of Qstd (flow rate standard conditions). All WDNR spreadsheet tools use an orifice calibrated in terms of Qa (flow rate actual conditions). Both approaches produce acceptable results. WDNR is promoting consistency towards doing all calibrations in terms of Qa. As a result of this comment, a clarification statement was made in the proposal section of the guidance document.

Changes made to Guidance and Spreadsheet Tools

Based on public comments and additional review of the materials, the following changes were made:

- Guidance issued date updated and status changed to FINAL
- Added sentence to Proposal section “WDNR recommends that all calibrations be done in terms of actual conditions.”
- Seasonal temperature/pressure table header corrected May to March
- Hi-Vol MFC calibration example and blank spreadsheet tools were updated:
 - Added an instruction tab similar to the Hi-Vol Audit form
 - Changed the Pre Verification/Maintenance section to evaluate against current calibration curve similar to the audit spreadsheet
 - A formula was corrected in the post verification/maintenance section to reference the post temperature and pressure
 - Protection settings were adjusted to allow better navigation through the spreadsheet.

If you have any questions, please contact Jason Treutel at (608) 264-8596 or Jason.Treutel@wisconsin.gov