

TNI Chemistry FoPT Subcommittee
Meeting Summary
March 11, 2014

1. Roll call and Meeting Minutes:

Chair Carl Kircher called the meeting of the Chemistry FoPT Subcommittee to order on March 11, 2014 at 12:07 EST. Attendance is recorded in Attachment A. There were 7 members on the call.

The meeting minutes for February 25, 2014 were distributed for review. A word was misspelled in the second paragraph. Joe Purdue motioned to accept the meeting minutes with the corrected typo. Stacey seconded the motion and they were unanimously approved.

2. FoPT Analyte Addition Application

Carl completed putting all the data into the Excel format that he uses to do calculations. He forwarded it to Dan for review. Dan compared it to the NPW pdfs back in 2011 and they were very similar. A pdf was submitted to the subcommittee for review. It will be discussed at the next meeting.

3. SCM FoPT Table

Tetrachloroethene

The study concentration was 1440 - 9230 ug/Kg. It did pass the SOP criteria. The current lower limit is 1000 ug/Kg. It did not pass the fixed limit tests as per the SOP criteria (failed b coefficient). The PDF is dated 3-5-14. Carl would suggest a fixed limit of about 40% if fixed limits are desired. Andy's lab's limits are 64-140%. Carl would also suggest leaving the current concentration limits in place. Carl noted at the lower level it was approved at +/- 50% fixed.

Dan thinks the regression equation should be used because the failure on the b coefficient was so large.

A motion was made by Dan to leave a concentration limit of 1000 - 10000 ug/Kg for Tetrachloroethene on the SCM FoPT accreditation table using the new regression equation with the abcd coefficients described in the PDF provided by Carl by on 3-5-14. The motion was seconded by Joe M and unanimously approved.

Carbon Tetrachloride

The study concentration was 3400 - 9660 ug/Kg. It did pass the SOP criteria. The current lower limit is 1000 ug/Kg. It did not pass the fixed limit tests as per the SOP criteria (failed the b and d coefficients). The PDF is dated 3-5-14. This is a difficult analyte. If the new regression equations are used, at 1000 ug/Kg the limits would be 42-140%. At 10,000 ug/Kg it would be 68-136%. The graphs look similar to the previous data. Carl suggest using the previous regression equations because of the limited amount of new data below 3400 ug/Kg. Andy's labs limits are 64-136% and he has seen one failure with these limits. His data represents both mid and low level data. Stacey's limits are +/- 40%.

A motion was made by Joe M. to leave a concentration limit of 1000 - 10000 ug/Kg for Carbon Tetrachloride on the SCM FoPT accreditation table and leave the current regression equation in place. The motion was seconded by Andy and the motion was unanimously approved. No change to the table will be made for this analyte.

1,1,1,2-Tetrachloroethane

The study concentration was 2390 - 8110 ug/Kg. It did pass all SOP criteria. The current lower limit is 1000 ug/Kg. It did not pass all the fixed limit tests as per the SOP criteria. The PDF is dated 3-6-14. Andy's limits are 70.9 – 121% with an average 95% recovery. If the new regression equation is used, at 1000 ug/Kg the limits would be 44-133%. There is a curl down. Present equation looks like it is about +/- 25%. Carl thinks the curl down may be due to the lack of PT data at the lower end of the range. Joe M. does not think there is enough data on the lower range to change the regression equation. Andy agreed.

A motion was made by Dan to leave a concentration limit of 1,000 – 10,000 ug/Kg for 1,1,1,2-Tetrachloroethane on the SCM FoPT accreditation table and keep the current regression equations. The motion was seconded by Joe M and the motion passed unanimously. No change made.

1,1,2,2-Tetrachloroethane

The study concentration was 3190 – 8530 ug/Kg. It did pass the SOP criteria. The current lower limit is 1500 ug/Kg. It did not pass the fixed limit tests as per the SOP criteria (failed a and b coefficients). The PDF is dated 3-6-14. If the new regression equation is used, at 10000 ug/Kg the limits would be 62-129% and at 1500 ug/Kg they would be 62-144%. Joe thinks there is not enough data at the low end to accept the new regression equation. There is data for only one provider.

A motion was made by Joe M. to leave a concentration limit of 1500 - 10000 ug/Kg for 1,1,2,2-Tetrachloroethane on the SCM FoPT accreditation table using the present regression equation. The motion was seconded by Stephen and was unanimously passed. No change was made.

Gasoline Range Organics

Two PDF files were distributed for consideration. Both were reviewed.

The study concentration was 210 - 1980 mg/Kg. It did pass the SOP criteria. It did not pass the fixed limit tests as per the SOP criteria. The PDF is dated 3-6-14. Andy is not comfortable with a 10% recovery on GRO. Andy's limits are basically 50-150%, but this may not be the same range as the PT. Dan thinks it is C5-C10.

Joe pointed out that there are a number of different state methods. Andy noted that gasoline is made different in different parts of the country.

Carl commented if the group goes with Study Mean, he would stick to what is currently in the table.

This analyte will be further discussed at the next meeting. The meeting time ended.

4. Action Items

See action item table in attachments.

5. New Business

- None.

6. Next Meeting

The next meeting of the Chemistry FoPT Subcommittee will be scheduled for March 25th. Carl and Dan should have more data available for review.

Action Items are included in Attachment B and Attachment C includes a listing of reminders.

The call was ended at 1:25pm EST by Free Conference.

Attachment A

Participants TNI Chemistry FoPT Subcommittee

| Members | Affiliation | Contact Information |
|---|--------------------------------|--|
| Carl Kircher, Chair Present | Florida DOH | carl_kircher@doh.state.fl.us |
| Joe Morotti Present | Sigma-Aldrich RTC | Joe.morotti@sial.com |
| Melanie Ollila Absent | Pace Analytical Services, Inc. | MOllila@pacelabs.com |
| Jeff Lowry Absent | Phenova | JeffL@phenova.com |
| Stephen Arpie Present | Absolute Standards, Inc. | stephenarpie@mac.com |
| Dan Dickinson Present | New York, DOH | dmd15@health.state.ny.us |
| Stacey Fry Present | E.S. BABCOCK & Sons, Inc. | sfry@babcocklabs.com |
| Joe Pardue Present | Pro2Serve, Inc. | 423-337-3121 joe_pardue@charter.net |
| Dr. Andy Valkenburg Present | Energy Laboratories, Inc. | avalkenburg@energylab.com 406-869-6254 |
| Ilona Taunton, Program Administrator Present | TNI | ilona.taunton@nelac-institute.org 828-712-9242 |

Attachment B

Action Items – Chemistry FoPT Subcommittee

| | Action Item | Who | Expected Completion | Actual Completion |
|-----|--|------------|----------------------------|--------------------------|
| 102 | Data work-up when it comes in for analyte additions. | Carl | tbd | In Progress |
| 104 | Re-evaluate Methylene Chloride with additional data Jeff will provide. | Carl | 2/25/14 | |
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Attachment C

Backburner / Reminders – Chemistry FoPT Subcommittee

| | Item | Meeting Reference | Comments |
|----|--|--------------------------|-----------------|
| 4 | Consider nomenclature differences between the analyte codes and the FoPT tables. | 2-23-10 | |
| 10 | | | |
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