

**TNI Chemistry FoPT Subcommittee  
Meeting Summary  
September 23, 2014**

1. Roll call and Meeting Minutes:

Chair Carl Kircher called the meeting of the Chemistry FoPT Subcommittee to order on September 23, 2014 at 12:12 ET. Attendance is recorded in Attachment A. There were 7 members on the call.

2. SCM Analyte Considerations

The subcommittee continued to evaluate the limits based on the new PDF files that now include information on study mean and cd coefficients.

Vanadium

The study concentration was 62.7 – 192 mg/Kg. SOP criteria was passed and it did not pass criteria for fixed limits. The PDF is dated 8-19-14. The current concentration range is 40 – 400 mg/Kg. The graphs look similar to the old regression equation. Carl would recommend either the old or new regression equations with the current concentration limit. The number of outliers comes close, but it still passes the SOP criteria.

At the low limit the span is 46-154% at 40 mg/Kg and 78-122% at 400 mg/Kg based on the participant mean. The study mean relative to the assigned value on a lot of the trace metals is 90%.

A motion was made by Dan to leave a concentration limit of 40-400 mg/Kg for Vanadium on the SCM FoPT accreditation table and use the new regression equations c&d as tabulated on the PDF file dated 8-19-14. The motion was seconded by Stephen and unanimously approved.

Zinc

The study concentration was 43.5 - 1120 mg/Kg. SOP criteria was passed and it passed criteria for fixed limits at 27.5%. The PDF is dated 8-19-14. The current concentration range is 100 – 1000 mg/Kg. Fixed limits would work with this element based on the data and Carl recommended using +/-30%.

Andy asked what the method limits is for the LFB in 6010 and 6020. It is 80-120% of the assigned value. The Matrix Spike is 75-125%. Stacey's SRM is running 70-130% on her control chart and blank spikes are running 75-125%. Andy's labs control limits on SRMs is 80-142%. He normally sees +/- 30%. Both Stacey and Andy would like to see fixed limits at +/- 30%.

A motion was made by Andy to leave a concentration limit of 100-1000 mg/Kg for Zinc on the SCM FoPT accreditation table and use a fixed limit of +/- 30% around the robust Study Mean based on the information provided in the PDF dated 8-19-14. The motion was seconded by Stacey and unanimously approved.

### Mercury

The study concentration was 1.95 – 29.7 mg/Kg. It did pass the SOP criteria. It passed fixed limit criteria at 41.6%. The current concentration is 1 – 35 mg/Kg. The PDF file was dated 8-19-14. Outliers that were removed were between 8-20 mg/Kg.

A fixed limit would be an improvement over what is currently set. The concentration is OK, but Carl is not sure anyone analyzes at the upper end.

Andy's limits are 70-130%. Statistically, the data is 60-140%. Stacey's lab is seeing 70-120%.

A motion was made by Dan to leave a concentration limit of 1-35 mg/Kg for Mercury on the SCM FoPT accreditation table and use a fixed limit of +/- 40% around the robust Study Mean based on the information provided in the PDF dated 8-19-14. The motion was seconded by Joe P. and unanimously approved.

### Calcium

The study concentration was 1740 -23300 mg/Kg. It did pass the SOP criteria. It did not pass fixed limit criteria. The current concentration is 1500 – 25000 mg/Kg. The PDF file is dated 9-17-14.

Carl noted the acceptance criteria would be the same between the old and new data. At the low end it is 59-142% and 77-123% at the high end of the concentration range. The current plot at the low end is 60-139% and 77-123% at the high end.

Andy suggested using the previous limits because there is currently not much data in the lower end of the concentration range.

A motion was made by Andy to leave all current limits for Calcium in place. The motion was seconded by Stephen. The motion passed unanimously.

### Magnesium

The study concentration was 2170 – 11200 mg/Kg. It did pass the SOP criteria. Fixed limit criteria was not passed. The current concentration is 1200 – 25000 mg/Kg. The PDF file is dated 9-17-14.

Andy noted that his SRM data shows 85-115% recovery. It is consistent with what is seen in the graph at the higher concentration.

The acceptance criteria looks the same between the old and new. The new criteria does have a slightly lower d coefficient.

A motion was made by Stephen to leave all current limits for Calcium in place. The motion was seconded by Dan and unanimously approved.

### 3. Update from PTPEC

Carl wanted the committee to be aware of requests coming from the PTPEC. They were asking about reanalyzing PT data for Total Dissolved Solids and Total Suspended Solids. They were also asking about the naming convention of TDS in the NPW table.

Carl understands the PTPEC will be asking for the reanalysis to look at more current data. There was also a comment that TDS PTs behave differently depending on how it is packaged. It is alone or part of another PT.

Stephen noted that historically the solids were part of another PT – with Hardness for example. Better values are seen with a PT sample only for Solids. Some PT Providers are now only offering the PT as a single Solids PT.

Andy commented that the lab that presented the issue to the PTPEC used a combination PT instead of a Solid PT. This saves the lab money in purchasing PTs, but it is not as good a sample.

### 4. Action Items

See action item table in attachments.

### 5. New Business

- Andy noted that the subcommittee has not been addressing PTRLs in our discussions. Carl commented that since the subcommittee is looking at study means for the metals – there should be no issue. He took a quick look at the volatiles previously looked at and also felt there were no concerns.

### 6. Next Meeting

The next meeting of the Chemistry FoPT Subcommittee has been scheduled for October 7, 2014.

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

The call was ended at 1:36pm EST. Motion – Dan Second – Stacey Unanimously approved.

## Attachment A

### Participants TNI Chemistry FoPT Subcommittee

Members	Affiliation	Contact Information
Carl Kircher, Chair <b>Present</b>	Florida DOH	<a href="mailto:carl_kircher@doh.state.fl.us">carl_kircher@doh.state.fl.us</a>
Joe Morotti <b>Present – 12:30pm</b>	Sigma-Aldrich RTC	Joe.morotti@sial.com
Melanie Ollila <b>Absent</b>	Pace Analytical Services, Inc.	MOllila@pacelabs.com
Jeff Lowry <b>Absent</b>	Phenova	JeffL@phenova.com
Stephen Arpie <b>Present</b>	Absolute Standards, Inc.	<a href="mailto:stephenarpie@mac.com">stephenarpie@mac.com</a>
Dan Dickinson <b>Present</b>	New York, DOH	<a href="mailto:dmd15@health.state.ny.us">dmd15@health.state.ny.us</a>
Stacey Fry <b>Present</b>	E.S. BABCOCK & Sons, Inc.	<a href="mailto:sfry@babcocklabs.com">sfry@babcocklabs.com</a>
Joe Pardue <b>Present</b>	Pro2Serve, Inc.	423-337-3121 <a href="mailto:joe_pardue@charter.net">joe_pardue@charter.net</a>
Dr. Andy Valkenburg <b>Present – 12:20pm</b>	Energy Laboratories, Inc.	<a href="mailto:avalkenburg@energylab.com">avalkenburg@energylab.com</a> 406-869-6254
Ilona Taunton, Program Administrator <b>Recorded</b>	TNI	<a href="mailto:ilona.taunton@nelac-institute.org">ilona.taunton@nelac-institute.org</a> 828-712-9242

**Attachment B**

**Action Items – Chemistry FoPT Subcommittee**

	<b>Action Item</b>	<b>Who</b>	<b>Expected Completion</b>	<b>Actual Completion</b>
111	Receive info on Class 1 Ozone Exemption from Joe M. and forward to Michella.	Carl	6/16/14	
113				

**Attachment C**

**Backburner / Reminders – Chemistry FoPT Subcommittee**

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