

**TNI Chemistry FoPT Subcommittee  
Meeting Summary  
October 20, 2015**

1. Roll call and Meeting Minutes:

Chair Carl Kircher called the meeting of the Chemistry FoPT Subcommittee to order on October 20, 2015 at 12:05 ET. Attendance is recorded in Attachment A. There were 7 members on the call.

2. Action Item #119

Ilona forwarded the portion of the minutes (1/27/15) related to this action item on 10/6/15. The actual request:

*Jeff asked Dan to add a friendly amendment to add that the historical data be viewed using the new regression equation to see if it will work for the four Aroclors. He wants to be sure there is not a substantial increase in rejection rates. Dan was in agreement. This is added to the motion. The acceptance of this new regression equation is pending looking at the failure rates of old data using the new regression equation.*

*Jeff, Dan, Joe and Stephen will be asked by Carl to do the comparison discussed above. This will take a few weeks. Dan noted that he doesn't have any historical data – this is new to his program.*

Carl asked the committee if they had reviewed the information sent by Ilona and reviewed their data.

Stephen noted that he did not think this should be a problem – calibration is already done for these compounds.

Joe M. noted that he looked at the data and did not have any problem.

Carl noted that the issue raised on 1/27/15 is not an issue and everyone on the call was in agreement.

3. SCM FoPT Table

Carl is still working on the Excel summary table. He will send a copy to committee members for review. He will use this table to update the actual FoPT table. He expects to get this out within a day.

The committee will not meet in two weeks to give everyone more time to review the summary and FoPT table. Everyone should also consider the remaining action items when performing the review.

#### 4. Analyte Request Application (ARA)

Jeff Lowry turned in a request (Attachment D) on 2/17/15 to add DBCP, EDB and 1,2,3-Trichloropropane to the SCM FoPT Table at a concentration of 0.7 – 7 ug/Kg.

The available PT data is based on water samples extrapolated to soil. Dan is concerned about this. Is this really a soil method? There is no defined method out there for soil. Carl commented that labs usually extract the soil sample into Hexane and then into the GC-ECD. It is not like the water basis. Dan asked what method the labs state they use when Carl sees this. It is a modified 8011. Dan is curious if New Jersey has a soil method they are offering for accreditation – since they sponsored the ARA.

Carl would prefer not to accept the ARA and add the analytes at this time. He and Dan would prefer to see real soil data.

Andy has a modified 8011 procedure that his lab uses. His lab's statistical limits are 72-124% with an average recovery of 96%. Only EDB is in the spike (spiked on sand or sodium sulfate). Andy thinks there should be an EPA method if this were to be added to the FoPT tables. His lab does not run a PT. His lab prepares the LCS at 0.02 mg/kg.

Dan made a motion to return the request to the PTPEC and ask that it be resubmitted with soil data and a reference method designed for soil at the requested concentration level. Andy seconded the motion and it was unanimously approved.

Carl will notify the PTPEC.

#### 5. Action Items

See action item table in attachments.

#### 6. New Business

- None.

#### 7. Next Meeting

The next meeting of the Chemistry FoPT Subcommittee has been scheduled for November 17, 2015. (*Addition: Next meeting was November 24, 2015.*)

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

The call was ended at 12:33 pm EST. (Motion: Stacey Second: Joe M. Unanimously approved.)

## Attachment A

### Participants TNI Chemistry FoPT Subcommittee

<b>Members</b>	<b>Affiliation</b>	<b>Contact Information</b>
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</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	daniel.dickinson@health.ny.gov
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 joe_pardue@charter.net
Dr. Andy Valkenburg <b>Present</b>	Energy Laboratories, Inc.	avalkenburg@energylab.com 406-869-6254
Ilona Taunton, Program Administrator <b>Recording</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>
119	Use new PCB in Oil regression equation on historical data to confirm there is no substantial increase in failure rates.	Joe, Dan, Stephen, Jeff	2-26-15	Complete
120	Look at Jeff's comments on the 5-19-15 meeting in the next few weeks: For several of the analytes the committee set acceptance limits at +/-25% of the mean of the study. PT Providers have to verify the spiked matrix to half of that – 12.5%. This gets tougher in soil matrices. Does this make sense?	All	TBD	
121	Update the Excel Summary Table and SCM FoPT Table. Distribute for committee review.	Carl	10/27/15	
122				

**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 6-2-15	



## TNI Fields of Proficiency Testing (FoPT) Analyte Request Application

SUBMISSION DATE: February 17, 2015

### SECTION I – REQUESTOR/ORGANIZATION INFORMATION

Requestor: Jeff Lowry

Organization: Phenova, Inc.

Address: 6390 Joyce Drive

City: Golden State: CO Zip: 80403

Telephone: 303-940-0033 Facsimile: 866-283-0269

Email: JeffL@Phenova.com

### SECTION II – Sponsor (if applicable)

**Required for applications submitted by individuals or on behalf of laboratories or Proficiency Testing Providers**

Sponsor Accreditation Body: New Jersey DEP

Official Contact: Rachel Ellis

Address: 401 East State St. PO Box 420, Mail code 401-02D

City: Trenton State: NJ Zip: 08625

Telephone: (609) 292-3950

Email: Rachel.ellis@dep.nj.gov

**Note here if reference to any additional AB sponsors is being provided.**

Additional sponsors? No

Yes  Other Sponsor ABs: \_\_\_\_\_  
\_\_\_\_\_

If yes, provide contact information on additional AB sponsors as an attachment to the application.

### Section III – Analyte Request

Instructions: If requesting addition of a new FoPT table or analyte(s) to an existing FoPT table, please complete section IIIA. If requesting removal of a FoPT table or analyte(s) from an existing FoPT table, please complete section IIIB. Requests for additions and removals cannot be submitted on the same application; separate applications are required.

#### Section IIIA – Addition of New FoPT Table or Analyte(s)

FoPT table and/or analyte(s) to be added (please specify program and matrix for new FoPT table):

##### SCM FoPT Table

4570 1,2-Dibromo-3-chloropropane (DBCP)

4585 1,2-Dibromoethane (EDB)

5180 1,2,3-Trichloropropane

For analyte(s) additions only, FoPT table(s) on which the analyte(s) should be added (if more than one analyte, clearly annotate which analytes to add to which existing FoPT tables):

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Reason(s) for adding the FoPT table and/or analyte(s):

Presently these three analytes are on the SCM FoPT table at concentrations between 40 and 200 ug/kg. These ranges are appropriate for Purge and Trap volatile analysis. Several states are accrediting laboratories for EPA Method 8011 for these three analytes in a soil matrix. TNI states are requiring the laboratories to analyze Proficiency Testing standards formulated for the purge and trap methodologies which are technically inappropriate for the extraction method used in 8011. The addition of these three analytes in the appropriate concentration range will provide a technically suitable proficiency testing standard for TNI accreditation.

As of March 2015 the Non-Potable Water (NPW) FoPT table has added these three analytes at a concentration of 0.2 to 2.0 ug/L. These analytes were added as a result of the use of the extraction procedure from EPA Method 8011 in water. This resulted in two concentration levels on the NPW FoPT table which supported the technology/method used for environmental analyses. The water extraction procedure for EPA Method 8011 involves a 35 ml water sample extracted with 2 ml of hexane. The applicant has collected information from laboratories accredited for 8011 by TNI on the typical extraction procedure for soil matrix. Typically, a laboratory weighs out 10 grams of sample, adds 10 ml of water and extracts with 2 ml of hexane followed by GC/ECD analysis. With this as the typical extraction procedure followed by accredited laboratories, the concentration range and PTRL for this addition to the SCM FoPT table should be at least 3.5 times higher than the NPW FoPT table.



FoPT Table Management

Do any TNI approved PT Providers currently offer the analyte(s) in a PT product?

No  Yes  Unknown

If yes, attach a list of PT products currently available (specify each PT Provider, PT Provider's product name, and PT Provider's catalog reference).

Vendor	Description	Catalog Number
Phenova, Inc.	WP 8011 EDB/DBCP/TCP	PT-8011-WP
	Soil/HW Volatiles	PT-VOA-SOIL
NSI	NPW-EDB/DBCP	PEO-103
ERA	EDB/DBCP/TCP	762
	Volatiles in Soil	623
RTC	Volatiles in Soil	SPE002L

The following documentation must also be provided as attachments to this application when requesting addition of new analyte(s):

- Proposed spiking concentration range and initial acceptance criteria.

TNI Analyte Code	Analyte	Conc Range (ug/kg)
4570	1,2-Dibromo-3-chloropropane (DBCP)	0.7 to 7.0
4585	Ethylene Dibromide (EDB)	0.7 to 7.0
5180	1,2,3-Trichloropropane	0.7 to 7.0

These proposed concentration ranges mimic the TNI NPW FoPT table times a multiplier of 3.5 as an initial starting point. See attachment NPW data for initial acceptance limits.

- Information on technical feasibility – this must include one or more method validation study showing that the analyte(s) can be measured throughout the proposed concentration range by at least one published method.

EPA Method 8011 Revision 0, July 1992

TNI NPW FoPT Data – attached.

**Section IIIB – Removal of FoPT Table or Analyte(s)**

FoPT table and/or analyte(s) to be removed:

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For analyte removals only, FoPT table(s) from which the analyte(s) should be removed (if more than one analyte, clearly annotate which analytes to remove from which FoPT tables):

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Reason(s) for removing the FoPT table and/or analyte(s):

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The following documentation must also be provided as attachments to this application when requesting removal of analyte(s):

- 1) Copies of any supporting documents that were referenced above in the reason(s) provided for removing the analyte(s).

**Section IV – Submittal of Application**

All applications (including attachments) must be submitted electronically via email to the PT Program Executive Committee Chairperson. No paper copies will be accepted.

Please complete the application and provide the supporting documentation as instructed. Incomplete applications will delay the review process and may be returned to the requestor.

***For PTPEC use only***

Date ARA Received:	
Date ARA Review Initiated:	
Date ARA Review Completed:	
Date Requestor notified of PTPEC's decision to pursue or dismiss the request:	
If pursued, Date Request submitted to FoPT Subcommittee:	
Date Request Completed:	