

**Whole Effluent Toxicity Testing Expert Committee Meeting
May 17, 2023 1:00 pm Eastern**

1. Welcome and Announcements

Rami welcomed everyone to the teleconference. Attendance is recorded in Attachment 1, below. In the absence of a quorum, neither the agenda nor the minutes were approved but participants discussed the updates and how to approach the remaining revisions to section 7 of the draft module.

2. Updates

Membership Status – Stephen noted that he has identified and invited one potential new member, who is now seeking approval from top management to participate in our committee. Additional new members of either “other” or “AB” stakeholder category are still encouraged to apply. NOTE: This individual, Darrin Greenstein, has now applied for voting membership as an “other” stakeholder, and his application will be considered at the June meeting.

PTPEC WET FoPT Subcommittee – this group did not meet in May.

SETAC Meeting Accreditation Session Presentations – Katie has offered to present her view of NELAP accreditation and will also provide a presentation on TNI itself. Teresa will address the TNI approach to accreditation. Both are working with others from the committee who are involved with SETAC and will submit abstracts.

3. Revising the Module

There were no additional comments or edits offered on section 6, the DOC section.

Rami began laying out his approach to revising section 7, Technical Requirements. Section §7.1 has a draft outline for revision, created two years ago, and subsection 7.1.6 has already been updated. Rami proposed two people to revise each of the larger subsections, 7.1, 7.2, etc.

Participants were reminded about the need to avoid repeating mandates from the method manuals, but that we can make “shoulds” into requirements in the standard or make existing mandates from the methods more stringent, if we believe that is warranted. The goal is to make the language more concise, and eliminate language that duplicates what is in the Quality System V1M2 and other modules, also.

Preliminary discussion noted that it makes sense to start with the bullets from the draft outline (see Attachment 3, below), but that some elements can be combined in different ways.

Volunteers offered to draft the following sections (annotations reflect discussion of content):

§7.1.2 – Stephen will include positive and negative controls, test endpoints, statistical analysis and control charts in this; §7.3 may (or not) be incorporated into this section, as it is developed.

§7.1.3 – Rami will address variability and reproducibility, to include specific metrics.

§7.1.4 – Rami and Teresa will address test sensitivity and include precision. Participants noted that some EPA regions add requirements to what the standard requires, and that PMSD serves as a control chart but is not strictly required in the method manuals presently.

§7.1.5 – Teresa will try to address reagents and standards without repeating the Module 4 (Chemistry) requirements and also clarify the EPA references.

The final 4 sub-bullets of the outline will likely fit into one of the other sections.

§7.4 – this may be adequate as it now exists.

The volunteers agreed that Rami's sections are probably the quickest to revise, so he should try to have that for the June meeting, to be followed by Stephen's section and then Teresa's work.
NOTE: We can default to discussing the definitions provided earlier by Teresa, if this effort gets delayed a bit.

4. New Business

There was no new business.

5. Next Meeting

The next teleconference meeting is scheduled for **Wednesday, June 21, 2023, at 1 pm Eastern.** We will continue using Microsoft Teams for screen-sharing, and the link with alternate telephone option will be shared along with the agenda and any needed documents, when those are sent with the meeting reminder.

Attachment 1

WET Expert Committee Membership

Member	Affiliation	Email	Category	Term Expiration	Present
Beth Biller	VA DCLA	Beth.biller@dgs.virginia.gov	AB	Jan. 2026 (1)	Yes
Thekkekalathil "Chandra" Chandrasekhar	FL DEP	Thekkekalathil.Chandrasekhar@dep.state.fl.us	Lab	Jan. 2024 (1)	No
Stephen Clark	Pacific EcoRisk	slclark@pacificecorisk.com	Lab	Jan. 2024 (1)	Yes
Rami Naddy (Chair)	TRE Env. Strat. LLC	naddyrb.tre@gmail.com	Lab	Jan. 2024 (3)	Yes
Teresa Norberg-King	USEPA	Norbe010@d.umn.edu	Other (Affiliate)	Jan. 2024	Yes
John Overbey	Eurofins Arkansas	joverbey@et.eurofinsus.com	Lab	Jan. 2024 (2)	No
Ila Meyer- Fritzsche	VA DCLS	ila.meyer-fritzsche@dgs.virginia.gov	AB	Jan. 2024 (1)	No
Caitie Van Sciver	NJ DEP	Caitie.VanSciver@dep.nj.gov	AB	Jan. 2024 (1)	No
Associate Members					
Steve Boggs	CA ELAP	steve.boggs@waterboards.ca.gov	AB (assoc.)		Yes
Sarah Brown	Cove Environmental	sarah@covesciences.com	Lab (assoc.)		No
Ginger Briggs	Bio-Analytical Laboratories	bal@bioanalyticallabs.com	Lab (assoc.)		No
Antoine Chamsi	East Bay Muni- cipal Utility Dist.	antoine.chamsi@ebmud.com	Lab (Assoc.)		No
MaryAnn Concepcion	SF Water	Mconcepcion@sflower.org	Lab (Assoc.)		No
Erin Consuegra	ERA LAB	econsuegra@eralab.com	Lab (Assoc.)		No
Helen Conrad	North Water Dist. Lab. Svcs.	helen.conrad@nwdls.com	Lab (Assoc.)		Yes
Amy Hackman	PA Dept. Environ. Prot.	ahackman@pa.gov	AB (assoc.)		No
Christina Henderson	Bio-Aquatic Testing, Inc.	chenderson@bio-aquatic.com	Lab (Assoc.)		Yes
Paul Junio	Pace Laboratories	paul.junio@pacelabs.com	Lab (Assoc.)		No
KC Lee	Environmental Enterprises	klee@eeusa.com	Lab (Assoc.)		No

Cody Medley	Pace National	cody.medley@pacelabs.com	Lab (Assoc.)		No
Kathi Mitchell	RMB Environmental Laboratories, Inc.	Kathleen.Mitchell@rmbel.info	Lab (Assoc.)		No
Marlene Moore	Advanced Systems	mmoore@advancedsys.com	Other (assoc.)		No
Katie Payne	Enthalpy Analytical	katie.payne@enthalpy.com	Lab (assoc.)		No
Michele Potter	NJ Dept. of Environ Protect.	Michele.Potter@dep.nj.gov	AB (assoc.)		No
Christina Pottios	Los Angeles Cty. Sanitation Districts	cpottios@lacs.org	Lab (Assoc.)		No
Jessica Redifer	EA Eng., Sci. &Tech.	jredifer@eaest.com	Lab (Assoc.)		Yes
Mary Ann Rempel-Hester	EcoAnalysts	mrempele@ecoanalysts.com	Lab (Assoc.)		No
Greg Savitske	US EPA OECA	Savitske.gregory@epa.gov	Other (Assoc.)		No
Laura Targgart	SF Water	ltarggart@swater.org	Lab (Assoc.)		No
Lyndsay Thomas	Coastal Bioanalysts, Inc.	lyndsay@coastalbio.com	Lab (Assoc.)		No
Alex Tite	EnviroScience	atite@enviroscienceinc.com	Lab (Assoc.)		No
Lem Walker	USEPA OW/OST	Walker.lemuel@epa.gov	Other (Assoc.)		No
Craig Watts	Hydrosphere Research	cwatts@hydrosphere.net	Lab (Assoc.)		No
Elizabeth West	LA DEQ LELAP	elizabeth.west@la.gov	AB (assoc.)		No
Program Administrator: Lynn Bradley, lynn.bradley@nelac-institute.org					

Attachment 2 – Agenda

- Welcome and Roll Call
- Approval of Agenda
- Approval of Minutes (April minutes attached)
- Updates
 - Search for Additional Member(s) of AB or "Other" Stakeholder Category
 - PTPEC FoPT Subcommittee
 - SETAC Abstract/Presentation
- Revising V1M7
 - Begin Section 7.1 -- Technical Requirements, Essential Quality Control Requirements, §7.1.1-7.1.5 (see attached draft module)
- New Business, if any
- Adjourn

Attachment 3 – ANNOTATED OUTLINE FOR V1M7 §7.1 DRAFT REVISION (as revisited 12/21/22)

- Reference toxicant and SRTs (positive control)
 - ± 2 SD of last 20 data points
 - Outside of control limits – lab should have procedure on this
 - Trends?
 - Control charts (one per endpoint [which endpoints?], tracking CVs, PMSDs)
 - Control charts for outside sources of organisms
 - Treated sample vs untreated sample
- (Negative) Controls
 - Dilution water – meeting performance criteria
 - Treatment controls (addition of sodium thiosulfate / salt / other treatments, blank)

Material above this point discussed and expanded at December 21 meeting; material below remains to be considered

- Specifics for cultures (separate from testing)
- History of culture of the organisms
- Then include items from Chapter 4 of the WET Guidance (acute and chronic appear to be similar, but this may need more detailed consideration)
 - Waters
 - Culturing
 - SRTs (likely will need a section on SRTs in the DOC, the QC and the positive/negative controls pieces of V1M7)
 - Negative controls
 - Test sensitivity
 - PMSDs
 - Equipment and calibration
- Variability and repeatability/reproducibility (need specific metrics to be evaluated as well as regular review for conformance with good laboratory practices)
- Test sensitivity (replicates, numbers of organisms – typically specified in permits)
- Reagents and standards (what grade of reagents, for example)

Consensus was that test acceptability criteria (TAC) should be mentioned, but as a requirement, not as QA/QC.