Microbiology Expert Committee (MEC) Meeting Summary

July 12, 2016

1. Roll Call and Minutes:

Robin Cook, Chair, called the meeting to order at 1:38pm EST by teleconference on July 12, 2016. Attendance is recorded in Attachment A – there were 4 members present. Associate Member present: None.

Minutes for the May and June meeting were distributed and will be approved by email since there were only 4 members available on the call today and only 3 last month.

(Addition: A motion was made by Patsy Root to approve the May 10 and June 14, 2016 minutes as written. The motion was seconded by Elizabeth Turner. Vote: Patsy – Motion (7/13/16) Elizabeth – Second (7/13/16) Gary – For (8/19/16) Mary – For (8/19/16) Elizabeth – For (8/19/16) Karla – For (8/19/16) Deb – For (8/21/16) Dwayne – For (8/22/16) Colin – For (8/22/16) The motion was approved.)

2. Orange County Meeting Presentation

Using Webex, Robin pulled up her DRAFT of the Microbiology Standard presentation that she will give next month in Orange County. She walked the group through the slides and made corrections and additions as they came up.

The committee discussed whether additional material is needed in the presentation. Robin wants to be sure the presentation is accurate and informative since the presentation will be later posted on the TNI website. The committee is asked to give the presentation one more review and email comments to Robin. She will make any recommended updates and send it to Ilona in the next week. Ilona will include it as Attachment D to these minutes.

3. Small Laboratory Handbook

Robin would like to complete the first DRAFT of the Handbook by the September 13th meeting. Everyone should finish up their sections and send them to her.

4. Action Items

A summary of action items can be found in Attachment B. The action items were reviewed and updated.

5. New Business

None.

6. Next Meeting and Close

The next meeting will be held on September 13, 2016 at 1:30pm Eastern.

A summary of action items and backburner/reminder items can be found in Attachment B and C.

Robin adjourned the meeting at 2:33 pm Eastern.

Attachment A Participants Microbiology Expert Committee (MEC)

Members	Affiliation	Balance	Contact Information		
Robin Cook	City of Daytona	Lab	(386)671-8885	cookr@codb.us	
(Chair)	Beach EML				
Present					
Patsy Root	IDEXX	Other	(207)556-8947	patsy-root@idexx.com	
(Vice-chair)	Laboratories, Inc				
Absent					
Karla Ziegelmann-	Microbiologics,	Other		kfjeld@microbiologics.com	
Fjeld	Inc				
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Absent					
Jessica Hoch	TCEQ	AB	512-239-2353	Jessica.hoch@tceq.texas.go	
				V	
Absent					
Colin Fricker	Analytical	Lab		colinfricker@aol.com	
	Services, Inc				
Absent					
Deb Waller	NJ DEP	AB	(609)984-7732	debra.waller@dep.nj.gov	
Absent					
Dwayne	Pennsylvania DEP	AB	(717)346-8213	dburkholde@pa.gov	
Burkholder					
Present					
Mary Robinson	Indiana State	AB	(317)921-5523	mrobinson@isdh.in.gov	
	DOH				
Present					
Elizabeth Turner	North Texas	Lab	(972)442-5405	eturner@ntmwd.com	
_	Municipal Water		Ext 535		
Present	District				
Po Chang		Other		Dr.PoChang@yahoo.com	
Absent					
Brad Stawick	Microbac	Lab	412-459-1058	brad.stawick@microbac.co	
	Laboratories			m	
Absent					
		0.1	((10)025.5577		
Gary Yakub	Environmental	Other	(610)935-5577	gyakub(@)envstd.com	
Abcont	Standards, Inc.				
Absent Ilono Tourtor	The NEL AC		(020)712 0242	Ilong tourston @r.slag	
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Attachment B

Action Items – MEC

			Expected	Actual
	Action Item	Who	Completion	Completion
1	Review Method Codes and send comments to Robin for Dan Hickman.	Deb	TBD	
4	Review Handbook and Method Codes before next meeting.	ALL	5/7/13	Handbook Complete.
12	Research possible effects of using bromine and whether it needs to somehow be included in the standard. Does not look like it.	Deb	November 2013 Meeting	
19	Provide EPA interpretation on temperature readings to Ilona. She will have it posted on the website.	Robin	1/31/14	
55	Ask Carl Kircher to prepare a table to list positive and negative organisms for specific tests.	Robin	12/31/15	
61	Send completed Handbook Sections to Robin.	All	9/9/16	

Attachment C

Backburner / Reminders – MEC

	Item	Meeting Reference	Comments
1	Update charter in October 2016.	n/a	

TNI Microbiology EC: 2016 Standard - Module 5

National Environmental Monitoring Conference, August 2016





2009 is a good standard so why a new one?

- Still a bit over carry over from the 2003
- □ 2016 Experts are the writers
- Microbiologists speaking the same language.
- Tried to anticipate some challenges
- All prior SIRs were considered in this revision.

Updates to V1M5

□ Section 1.2

The essential quality control procedures applicable to microbiological analysis are included in this module. Additional quality control or program requirements that are either specified by method, regulation or project shall be met by laboratories.

Updates to V1M5

- Added Clari
- >Added Clarity
- Reinforce the concept minimum requirements
- Default to the use of the data





• **Updates to V1M5** • **1.6.2.2.e** Compare the information from c) above to the corresponding acceptance criteria for precision and accuracy in the method (if applicable) or in laboratory-generated acceptance criteria such as relative standard deviation (if there are not established mandatory criteria). If all parameters meet the acceptance criteria, the analysis of actual samples may begin. If any one of the parameters does not





Updates to V1M5

- 1.7 QC Sections The whole section reorganized to specify the "before" requirements and the "during" requirements.
 - Previous section 1.7.3.5 of the 2009 TNI std (media checks, reagent water checks, supply checks) and sterility checks have been combined into section 1.7.3.1 to represent the "before"
 - Method blanks are done "during" now a completely separate section

Updates to V1M5

- Section 1.7 QC regarding Blanks and check
 - > Added Clarity
 - Sterility and performance checks are for materials
 - Blanks are for method and technique

Updates to V1M5 Section 1.7 cont 1.7.3.1.d.vi Purchased reagent water that has been opened for longer than the testing intervals specified in items i) through iv), or in the accredited method shall either be re-tested or discarded. 1.7.3.1.e Dilution Water, however used, includes buffer water and/or peptone water. The quality of the dilution water shall be monitored for sterility, pH and volume once per lot or batch whether purchased or

Updates to V1M5

□ Sections 1.7.1.1.d.vi and 1.7.3.1.e

- > Added guidance for labs
- > Dilution water \neq reagent water
- Individual requirements for each more clear.

Updates to V1M5 Section 1.7 cont.

1.7.3.3 Test Variability/ Reproducibility

lab prepared.

For methods that specify counts (i.e. cfu/ 100mL or MPN/100mL) such as membrane filter, plated media or other methods which specify a quantitative result, duplicate counts shall be performed monthly on one (1) positive sample, for each month that the test is performed.

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Updates to V1M5

- Sections 1.7.1.1.d.vi and 1.7.3.1.e
 - >Added guidance for labs
 - > Applies to any method where a number is reported.

Updates to V1M5

 1.7.3.6 Selectivity – added phrases to improve clarity and flexibility

 All growth and recovery media shall be checked to

assure that the target organism(s) respond in an acceptable and predictable manner once per lot or batch.

b. To ensure that analysis results are accurate, target organism identity shall be verified as specified in the method (e.g., by use of the completed test, or by use of secondary verification tests such as a catalase test, or by the use of a selective medium such as brilliant green (BG) or E. coli (EC or EC + MUG broth).



<section-header> Dupdates to V1M5 Sections 1.7.3.3.6.ii.2 Added guidance for labs Like for like Get a number not just "present" for qualitative tests





Updates to V1M5 1.7.3.7.b.iii Volumetric Equipment clarifying language added: The laboratory shall verify equipment used for measuring volume as follows: Added 1.7.3.7.b.iii.4 – Verification of volume shall be considered acceptable if the accuracy is within 2.5% of expected volume. This verification can be volumetric as compared to Class A or gravimetric.

Updates to V1M5 Sections 1.7.3.7.b.iii and iii.4 Clarification All pieces measuring volume not just pipettes. Acceptance criteria for the volumetric check. Only a baseline. Program requirements supersede





Updates to V1M5

- > SIR regarding frequency of temp readings
- Flexibility for staffing issues and periods of non-use
- Clarification on equilibrium condition testing



Updates to V1M5

1.7.3.7.b.vi- Inhibitory Residue Testing

3. Labware that is washed and reused shall be tested for possible presence of residues that may inhibit or promote growth of microorganisms by performing the Inhibitory Residue Test initially and each time the lab changes the detergent formulation or washing procedures.



















