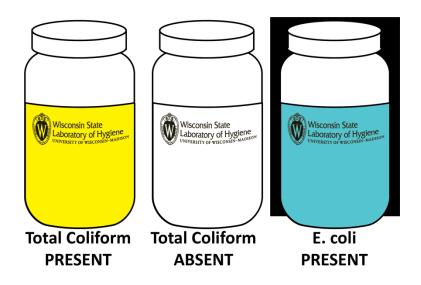
Beyond RTCR Assessment Requirements: Identifying Microbial Contaminants to Suggest Corrective Actions

Alyssa M. Beck, PhD
Wisconsin State Laboratory of Hygiene
Water Microbiology



Revised Total Coliform Rule



 Positive tests indicate the potential for fecal contamination, but do not identify contamination sources

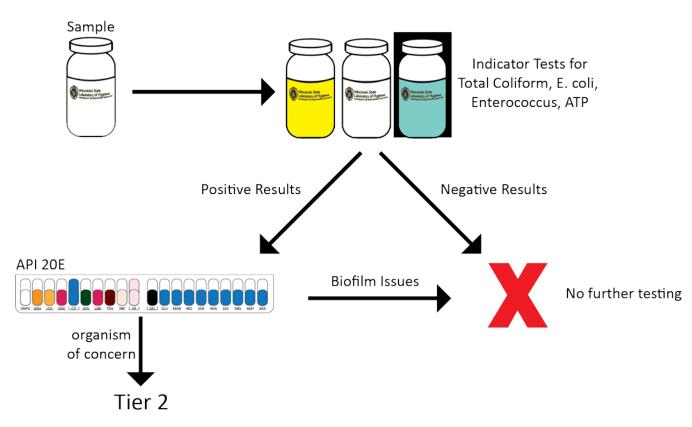


Well Assessments

- Assessments are triggered when a PWS has repeated total coliform presence in routine samples
- Goal: Identify potential contamination sources to determine need for further testing or to inform corrective action

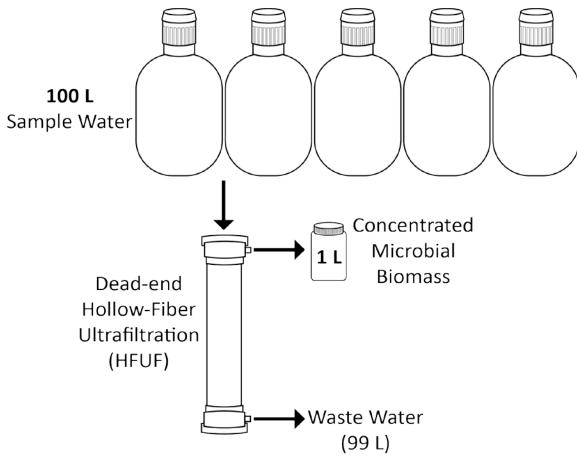


Tier 1 Assessment - Processing Steps



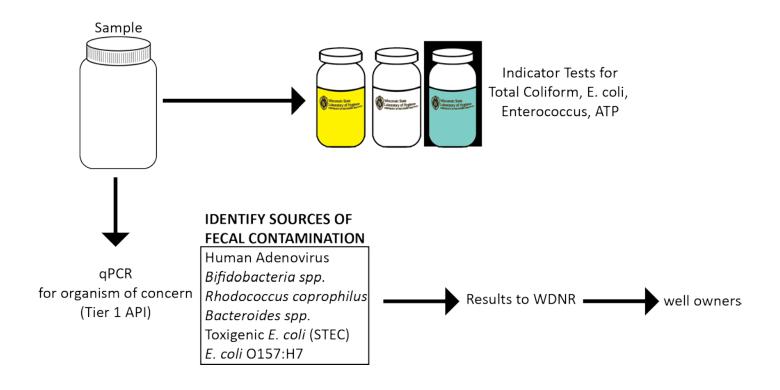


Tier 2 Assessment - Large Volume Sampling





Tier 2 Assessment - Processing Steps





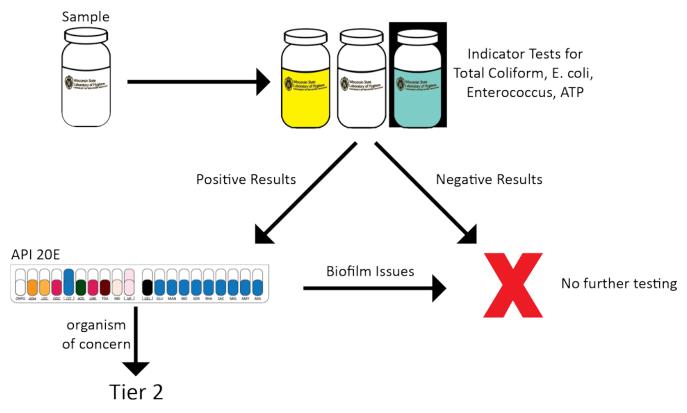
Corrective Action

 Once a contamination source is identified, well owners work with WDNR to come up with a plan for corrective action



Future Directions - Biofilms

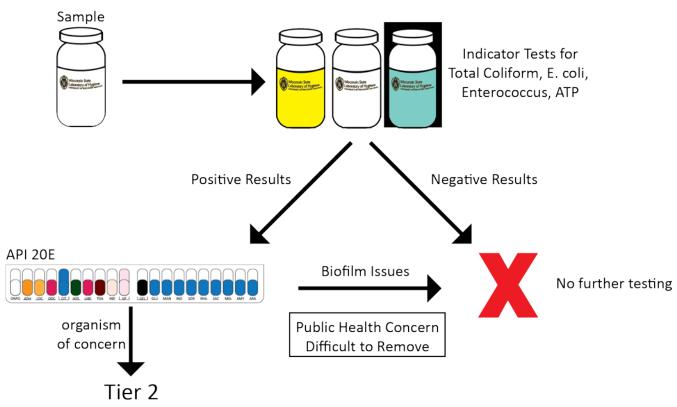
Tier 1 Assessment





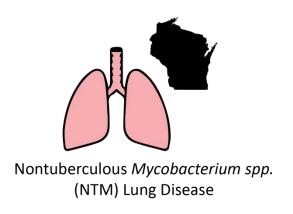
Future Directions - Biofilms

Tier 1 Assessment





Future Directions – *Mycobacterium spp.*

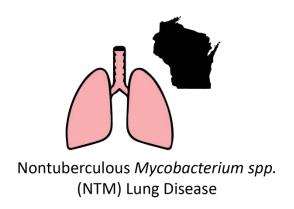






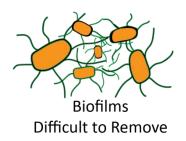


Future Directions – Mycobacterium spp.



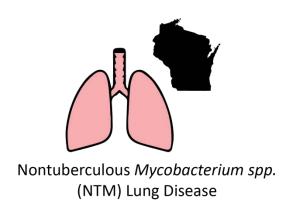






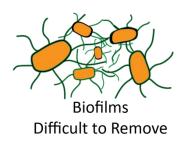


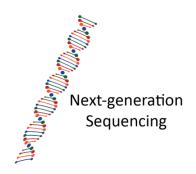
Future Directions – Mycobacterium spp.













Contact

- Alyssa Beck, Microbiologist <u>Alyssa.Beck@slh.wisc.edu</u>
- Sharon Kluender, Water Microbiology Supervisor <u>Sharon.Kluender@slh.wisc.edu</u> 608-224-6266
- Dave Webb, Assistant Director <u>David.Webb@slh.wisc.edu</u> 608-224-6200

