

# Changes to the Laboratory Certification Rules

# Introduction

- Interim Authorization
- Manuals and the Ohio Administrative Code (OAC)
- Membrane Filter Sunset Date
- Out of State Lab Approval
- One Liner Items

# Interim Authorization

- Currently, only plant control tests
- Proposed addition, MMO-MUG (OAC 3745-89-09)

# Interim Authorization for MMO-MUG

- Parallel testing
  - Seven samples a day, totaling at least twenty-one samples
  - Required quality control included in seven sample set
  - Trainer must be a certified analyst for MMO-MUG (SM 9223)
- Parallel results (Certified Trainer)
  - no false negatives and no more than one false positive in a set.

# Manuals Incorporated into Rules

- The requirements for maintaining laboratory certification include the following:
  - Conformance by the laboratory to the "Ohio EPA Laboratory Manual for the Microbiological Analyses of Public Drinking Water 2014" and the "Ohio EPA Laboratory Manual for the Chemical Analyses of Public Drinking Water 2014". (OAC 3745-89-05)

# Sunset Date for Membrane Filtration

- Until March 31, 2016: fecal coliform analysis, for total coliform-positive results may be used, using EC medium. (OAC 3745-81-27)
- After March 31, 2016, *E. coli* analysis must be performed.
  - Using either a nutrient EC-MUG or NA-MUG
  - Follow preparation instructions from Standard Methods sections 9222 G.1c(2) or 9222 G.1c(1).

# Out of State Laboratory Approval (3745-89-02)

- Granted to out of state laboratories when parameter capacity issues exist in Ohio
- Updated requirements

# Out of State Laboratory Approval (3745-89-02)

- Asbestos
- Dioxin
- Cryptosporidium
- Radiochemistry



# Out of State Laboratory Approval (3745-89-02)

- A copy of the certificate by the accrediting body
- The evaluations of the two most recent PT sample studies
- The evaluations of PT samples resulting in evaluation of “Not Acceptable”
- Reports from the most recent survey by the accrediting body issuing the certification

# One Liner Items

# Analytical Techniques (3745-81-27)

- 22<sup>nd</sup> edition of Standard Methods added
- Addition of the following methods: Cryptosporidium (EPA 1623.1), ChlordioX Plus and VOCs/THMs/Vinyl Chloride (EPA 524.4)
- Laboratories shall be certified for each method (and any associated contaminant) used for compliance monitoring analyses.
- Total coliform and *E. coli* results need only be determined as presence or absence, density not required.
- Sufficient sodium thiosulfate must be added to the sample bottle before sterilization

# Procedure for laboratory approval (3745-89-03)

- Identification of laboratory plan requirements
- Clarification of requirements for a Quality Assurance Plan

# Interim authorization for new contaminants and new methods (3745-89-10)

- Simplified the microbiological requirement
  - Pass one proficiency test, from a NELAP approved provider
- No longer required to provide the following:
  - Three sets of duplicate samples, tested at least one month a quarter for three consecutive quarters.
  - Parallel testing between Ohio EPA unapproved method and Ohio EPA approved method

# Questions?