

# DOW Laboratory Certification Program Update – 2015

Presentation to:

**KWWOA**

**April 15, 2015**

**Department for Environmental Protection  
Energy & Environment Cabinet**



*To Protect and Enhance Kentucky's Environment*

**Kentucky**  
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# Topics

Laboratory Certification Program Update

Updated Laboratory Certification Webpage

Drinking Water

Wastewater

# Laboratory Certification Webpages

- Main Webpage

<http://water.ky.gov/permitting/Pages/labcert.aspx>

- Email addresses for applications/PT Studies
- Contact Information
- Documents

- Drinking Water Webpage

<http://water.ky.gov/DrinkingWater/Pages/CertifiedLaboratories.aspx>

- Wastewater Webpage

<http://water.ky.gov/permitting/Pages/WasteWaterCertification.aspx>

# Drinking Water

# Drinking Water Program Update

<u>Program</u>	<u>In-state</u>	<u>Out-of-state</u>
Chemistry Labs	13	27
Microbiology Labs	46	3
Cryptosporidium	1	3
Radionuclides	0	8
Dioxin	0	6
Asbestos	1	3
PCBs (EPA508A)	0	2

# DW Certificate Analyte-Method List

- Certificates are valid January 1<sup>st</sup> – December 31<sup>st</sup> of each calendar year
- DW method-analyte lists must include:
  - Minimum Reporting Level (MRL)

# On-site Laboratory Audits

- Both Chemistry and Microbiology laboratories will be audited at least twice every three years
- Cryptosporidium audits are on-going through the next round of LT-2. Laboratories will be audited at least once within a three year period.
- Announced and Unannounced Audits

# Cryptosporidium LT2 - 2015

- *Cryptosporidium* sampling and analysis can begin any time after April 1, 2015
- Submit sampling plan prior to sample analysis
- There are 26 nationally certified laboratories
- KY certified *Cryptosporidium* laboratories - 4



# DW Proficiency Test Studies

- Laboratories performing drinking water analyses are required to successfully complete one PT Study per method-analyte each year
- Laboratories that fail two consecutive PT Study samples for the same method-analyte must report to the state with a corrective action plan
- Electronic tracking system PT Study results

# Drinking Water Webpage

- Drinking Water Webpage
  - List of certified laboratories
  - Announcements
  - Essentials
  - Application Reference Documents
  - Technical Assistance Documents

<http://water.ky.gov/DrinkingWater/Pages/CertifiedLaboratories.aspx>

# DW List of Laboratories

- Table of Contents – contains a complete list of all Kentucky certified drinking water laboratories
- Contact Information
  - Certified category (Micro, Chem, Crypto, Rads)
  - Mailing address, phone/fax numbers
- Hyperlink to laboratories method-analyte list
  - Copy of laboratory method-analyte lists

# DW Analyst Training

- Analyst training is required. Options available are:
  - Formal Workshop/Structured Training Program
  - On-line Programs
  - In-house – submit scope of training to DOW
- DOW does not track CEUs – laboratories are required to maintain all training records for review during on-site audit or upon request

# Wastewater

# Wastewater Program Update

<u>Program</u>	<u>In-state</u>	<u>Out-of-state</u>
General Laboratories	78	41
Chemistry	67	37
Microbiology	52	7
WET	6	11
Field-only Laboratories	16 (33)	1

# WW General Laboratories

- Certificates are valid for one calendar year (January 1<sup>st</sup> – December 31<sup>st</sup>)
- Certification is required – January 1, 2015
- All laboratories submitting KPDES compliance sample results must be certified by Kentucky
- WW method-analyte lists must include:
  - Method Detection Limit (MDL)
  - Minimum Reporting Level (MRL)

# WW Field-only Laboratories

- Certificates are valid for one or two calendar years (January 1<sup>st</sup> – December 31<sup>st</sup>)
- Certification is effective – January 1, 2015
- Certification is required – January 1, 2016
- Application must be received by October 1, 2015 – to provide sufficient time to review and issue certificate



# Field-only Laboratory Parameters

- Temperature
- pH
- Conductivity
- Dissolved oxygen
- Turbidity
- Total residual chlorine

# Field-only Application Materials

- Field QAP and SOP Template
  - Includes all six (6) parameters
  - Entire list of EPA/KY approved methods
  - Required QA/QC
  
- Stormwater pH-only
  - Field pH only QAP and SOP Template
  - Field pH only QAP and SOP Instructions

# Compliance Sample Results

- Submit all non-coal results using Net-DMR
- Coal results - phased in by end of 2015
- KPDES will only accept analytical results that are above the MRL
- Estimated results are not acceptable for compliance (e.g. >MDL and <MRL)
- DMR Manual – February 2015
  - <http://water.ky.gov/permitting/Pages/WasteWaterCertification.aspx>

# WW On-site Laboratory Audits

- General Chemistry, Microbiology and WET laboratories will be audited at least once every five years
- Field-only laboratories will be audited by LabCert group, then by Regional Offices
- Combined audit for laboratories that are DW and WW certified, including audit report
- Announced and Unannounced Audits

# WW Proficiency Test Studies

- Laboratories performing wastewater analyses are required to successfully complete one PT Study sample per analyte-method each year
- Laboratory's that fail two consecutive PT Study samples for the same method-analyte must submit a corrective action plan
- DMR-QA is acceptable for KY PT Study
- Electronic tracking system PT Study results

# Wastewater Webpage

- Wastewater Webpage
  - Announcements
  - Application Essentials
  - Templates
  - Application Reference Documents
  - Technical Assistance Documents
  - Presentations

<http://water.ky.gov/permitting/Pages/WasteWaterCertification.aspx>

# Proposed MUR - 2015

- Proposed Method Update Rule was published in Federal Register on February 19, 2015
  - Comments due by May 20, 2015
- Federal Register Notice (February 19, 2015)
- Fact sheet (January 2015)

<http://water.epa.gov/scitech/methods/cwa/mur2015.cfm>

# Proposed MUR – EPA Proposing

- Revised Agency analytical methods
- Revised methods published by voluntary consensus standard bodies (such as ASTM International and the *Standard Methods* Committee)
- Methods positively reviewed under the Alternate Test Procedures (ATP) program
- Changes to clarify the procedures for EPA approval of nationwide and limited use ATPs
- Amendments to the procedure for determination of the method detection limit (MDL).



# DOW Laboratory Audit Team

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# Questions

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# Contact Information

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