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

<table>
<thead>
<tr>
<th>Program</th>
<th>In-state</th>
<th>Out-of-state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry Labs</td>
<td>13</td>
<td>27</td>
</tr>
<tr>
<td>Microbiology Labs</td>
<td>46</td>
<td>3</td>
</tr>
<tr>
<td>Cryptosporidium</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Radionuclides</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td>Dioxin</td>
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<td>6</td>
</tr>
<tr>
<td>Asbestos</td>
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<td>3</td>
</tr>
<tr>
<td>PCBs (EPA508A)</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>
• Certificates are valid January 1st – December 31st 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
• 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

- 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

<table>
<thead>
<tr>
<th>Program</th>
<th>In-state</th>
<th>Out-of-state</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Laboratories</td>
<td>78</td>
<td>41</td>
</tr>
<tr>
<td>Chemistry</td>
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<td>37</td>
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<tr>
<td>Microbiology</td>
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<td>7</td>
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<tr>
<td>WET</td>
<td>6</td>
<td>11</td>
</tr>
<tr>
<td>Field-only Laboratories</td>
<td>16 (33)</td>
<td>1</td>
</tr>
</tbody>
</table>
• Certificates are valid for one calendar year (January 1st – December 31st)

• 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)
• 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
• 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
• 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

- 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).
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Patrick Garrity – Laboratory Certification Officer
Kevin Stewart – Certification Officer
Dr. Ted Pass – Certification Officer
Tiffany Nolan – Certification Officer
Erich Cleaver – Certification Officer
John Williams – Laboratory Auditor
Tabitha Aldridge – Laboratory Auditor
Gabe Tanner – Laboratory Auditor
Jack Wiedo – Laboratory Auditor
Samantha Kaiser – Laboratory Auditor
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