



**Notice of Open Meeting  
Safe Drinking Water Commission**

To review minutes from previous meetings and learn about agenda items, please refer to the Department website at [Safe Drinking Water Commission](#).

**AGENDA**

**Department of Natural Resources Conference Center  
1101 Riverside Drive  
Nightingale Creek Conference Room  
Jefferson City, MO 65101  
January 15, 2020  
10:00 a.m.**

- |  |                  |
|--|------------------|
| <b>A. Call to Order and Introductions</b>                            | Liz Grove        |
| <b>B. Minutes from October 16, 2019 meeting</b><br>(Approval Needed) | Liz Grove        |
| <b>C. Election of Officers</b>                                       | Liz Grove        |
| <b>D. Reports and Updates</b><br>(Information Only)                  |                  |
| 1. Missouri Water Resources Plan                                     | Jennifer Hoggatt |
| 2. Disinfection Byproducts Project                                   | Maher Jaafari    |
| 3. EPA's Proposed Lead and Copper Rule                               | Jeff Pinson      |
| 4. Fee Stakeholder Meeting Update                                    | David Lamb       |
| 5. Unregulated Contaminant Monitoring Rule/PFAS Update               | Eric Medlock     |
| 6. Attorney General's Office Update                                  | Tim Duggan       |
| 7. Branch Chief's Update   | David Lamb       |

**E. Recommended for adoption and actions to be voted on**  
(Approval needed)

1. Proposed Amendment to the Fiscal Year 2020 Drinking Water State Revolving Fund (DWSRF) Intended Use Plan (IUP) Comprehensive List and Fundable Projects List Darleen Groner

**F. New Business** Liz Grove  
(Information Only)

**G. Open Comment Session**  
(Information Only)

This segment of the meeting affords the public an opportunity to comment on any other issues pertinent to the Safe Drinking Water Commission.

**H. Future Meeting Dates**  
(Information Only)

**April 15, 2020**

**July 8 2020**

**July 10, 2020**

**I. Closed Session** Liz Grove

This portion of the meeting may be closed if such action is approved by a majority vote of the Safe Drinking Water Commission members who constitute a quorum, pursuant to Section 610.021, RSMo.

**J. Meeting Adjournment** Liz Grove  
(Approval Needed)

People requiring special services at the meeting can make arrangements by calling 1-800-361-4827 or 573-751-0124. Hearing- and speech-impaired individuals may contact the department through Relay Missouri, 1-800-735-2966.

## **Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # A  
**Call to Order and Introductions**

**Issue:**

Meeting to be called to order and roll call of Commissioners taken, all others in attendance to make introductions.

**Recommended Action:**

Information only.

**Presented by:**

Liz Grove, Chair, SDWC

**Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # B  
**Minutes from October 16, 2019, Meeting**

**Issue:**

Commission to review the minutes from the October 16, 2019, Safe Drinking Water Commission meeting.

**Recommended Action:**

The Department recommends the Commission vote to approve the minutes from the October 16, 2019, Safe Drinking Water Commission meeting.

**Suggested Motion Language:**

Chair Grove, I move that the Commission approve the minutes from the October 16, 2019, meeting.

**Attachment:**

Minutes from the October 16, 2019, meeting.

**Presented by:**

Liz Grove, Chair, SDWC

**MINUTES OF THE  
SAFE DRINKING WATER COMMISSION**

**Water Protection Program  
Public Drinking Water Branch  
Missouri Geological Survey  
1251 Gale Drive, Unit B  
Mozarkite Conference Room  
Rolla, MO 65401**

**October 16, 2019  
10 a.m.**

**Commissioners Present:**

Ms. Elizabeth Grove, Chair  
Ms. Susan Hazelwood, Vice Chair  
Mr. Rodger Owens  
Ms. Charli Jo Ledgerwood  
Mr. Curt Skouby  
Mr. Fred Schmidt

**Commissioners Absent:**

Ms. Susan Armstrong  
Mr. Bruce Manning

**Commissioners Participating via Conference Call:**

Mr. Scott Bockenkamp

**Legal Counsel:**

Mr. Tim Duggan, AGO

**Staff Present:**

Mr. David Lamb, WPP/PDWB  
Ms. Donna Belfiore, WPP/PDWB  
Ms. Sheri Fry, WPP/PDWB  
Ms. Hannah Humphrey, WPP/FAC  
Mr. Lance Dorsey, WPP/PDWB  
Mr. Scott Kaden, MGS, WRC

Mr. Tom Adams, WPP/PDWB  
Ms. Darlene Helmig, WPP/PDWB  
Mr. Todd Eichholz, WPP/PDWB  
Ms. Sharon Davenport, WPP/FAC  
Mr. Joel Reschly, DNR/ GCO

**Guests Present:**

Mrs. La Dawn Owens, Lakeland Heights

Shelley Lane, MOAW

**Abbreviations and Acronyms used in these minutes**

**AGO** Attorney General's Office  
**EPA** Environmental Protection Agency  
**FAC** Financial Assistance Center  
**GCO** General Counsel's Office  
**GIS** Geographical Information System

<b>LCSOB</b>	Lewis and Clark State Office Building
<b>MGS</b>	Missouri Geological Survey
<b>MOAW</b>	Missouri American Water
<b>PDWB</b>	Public Drinking Water Branch
<b>SDWC</b>	Safe Drinking Water Commission
<b>SDWIS</b>	Safe Drinking Water Information System
<b>WIIN</b>	Water Infrastructure Improvements for the Nation Act
<b>WPP</b>	Water Protection Program
<b>WRC</b>	Water Resource Center

### **Call to Order and Introductions**

The regular meeting of the Safe Drinking Water Commission was held on October 16, 2019, in Rolla, Missouri. Chair Grove called the meeting to order at 10:00 a.m.

Roll call was taken and all in attendance made introductions, including Commissioner Bockenamp, who was participating via teleconference. Commissioners Armstrong and Manning did not participate in the meeting.

### **Minutes of the July 17, 2019, Meeting in Jefferson City, Missouri**

Chair Grove asked for any changes, additions, or deletions to the minutes from the July 17, 2019, meeting as presented in the packets. Hearing none, she called for a motion to approve. Vice-Chair Hazelwood made a motion to approve the minutes, and Commissioner Ledgerwood seconded it. All commissioners voted to approve the July 17, 2019, meeting minutes as presented.

Motion carried.

### **Water Resource Center Overview**

Mr. Scott Kaden, the Ground Water Section Chief of the Water Resource Center, gave an overview of their program which is located within the Missouri Geological Survey. He explained the organization of the WRC and their role in handling different water related issues. He explained that the Surface Water Section provides assistance for wetlands around the state, provides emergency and disaster responses, provides planning services for water supply projects, and manages the updates to the State Water Plan. He then explained the role of the Groundwater Section and their responsibilities for maintaining the groundwater observation well network, investigating and evaluating spring discharges, implementing the provisions of the Major Water Users Law, providing assistance to ensure proper construction of public water supply wells, and partnering with the PDWB to update SDWIS and GIS layers.

No action taken by the Commission, information only.

## **2018 Annual Compliance Report**

Mr. Tom Adams reported to the Commission that the 2018 Annual Compliance Report has been completed and posted for public review as required by the Safe Drinking Water Act. He used a PowerPoint presentation to go over the highlights of the report. He explained that 98.9% of the population was provided water by a community public water system that met all health-based requirements, which was up from the previous year. He also noted that using the person-months calculation, this number improved to 99.4%. He then discussed the types of health-based violations identified in the state, noting disinfectant byproducts still remains the most common. A copy of the Annual Compliance Report was provided in the meeting packets for each commissioner.

No action taken by the Commission, information only.

## **Operator Certification Annual Report**

Ms. Darlene Helmig updated the Commission on the Operator Certification Annual Report. She went over the highlights of the report and explained how the Red Tape Reduction Initiative changed how some facilities are designated between the different certification levels. She also provided an update on the ongoing collaboration with the Department of Corrections to provide operator certification training to select offenders nearing their release date. Her presentation also included a video featuring a former inmate who has successfully transferred back into civilian life with a similar program. A copy of the annual report was also provided in the meeting packets for each commissioner.

No action taken by the Commission, information only.

## **Primacy Fee Revision**

Mr. David Lamb reported to the Commission that the Branch is starting to work towards initiating fee stakeholder discussions to raise the Primacy Fee. In a PowerPoint presentation, he provided a brief discussion of the history of the Primacy Fee and then explained the process that the Department and Commission would need to follow to revise the fee. He then briefly discussed the current status of the fee fund and the timeline for stakeholder efforts and moving a potential rulemaking forward. He noted the stakeholder efforts would be initiated in January of 2020. Mr. Lamb fielded several questions from the Commissioners and the audience.

No action taken by the Commission, information only.

## **Long Term Two Enhanced Surface Water Treatment Rule Update**

Mr. Todd Eichholz reported to the Commission that the Long Term Two Surface Water Treatment Rule has ended for the larger public water systems (10,000-50,000 population) and the testing for the smaller systems (<10,000 population) began in April, 2019. His PowerPoint

presentation, which was included in the Commissioners' meeting packets, showed the timelines of the testing for each system size according to population. Results of the first round of testing showed 15 of approximately 70 sources fell into bin two, which required additional treatment. He noted 11 of those 15 were river systems. He then reported on the second round of testing. He stated that 47 systems were tested, and only six systems exceeded the *E. coli* triggers. He also reported that five of these six systems fell into bin two during the first round of sampling, and are currently meeting the treatment requirements. He stated that there is only one system from the second round (Neosho) that needs to install treatment by 2022.

No action taken by the Commission, information only.

### **Attorney General's Office Legal Update**

Mr. Tim Duggan reported to the Commission the current issues under review in his office, and gave a brief explanation of the legal process in general for appeals and the AGO's role in that process.

No action taken by the Commission, information only.

### **Branch Chief's Update**

Mr. David Lamb started his update by providing the Commission with information on recent staff changes. He noted several new hirers and the status of remaining vacancies.

Next Mr. Lamb gave an update on recent EPA activities. He reported that EPA signed a proposed revision to the Lead and Copper Rule on October 10, 2019. He then highlighted several significant provisions included in the rule proposal. He stated that the PDWB will review the proposed rule over the next couple of months to determine if it is necessary to make any comments on the new rule. He then reported on the EPA Inspector General's recent report on Public Notice. He stated that in response to the report EPA has identified several actions that they will take in the coming year to reform the public notice process.

Mr. Lamb then updated the Commission on state activities. He informed the Commissioners that the state Lead and Copper Rule recently approved by the Commission was published in the *Missouri Register* on October 1st and would be published in the *Code of State Regulations* on October 31<sup>st</sup>. He noted the rule would go into effect on November 30, 2019. Next he updated the Commission on the status of the Department's submittal of primacy packages to EPA. He stated that three primacy packages related to Red Tape Reduction Initiative changes have already been submitted to EPA and that the remaining eight packages will soon be finalized and submitted as well.

At the conclusion of his update, Mr. Lamb reported on the status of the WIIN Grant related to assisting small and disadvantaged communities. He stated that the FAC was taking the lead on this grant. He noted that the FAC determined that the City of Lanagan is the only candidate

which meets the small and disadvantage requirements with a ready to go project. FAC is currently working on an application for them to fund upgrades to Lanagan's treatment, storage, and distribution system.

No action taken by the Commission, information only

**Adoption of the Final Fiscal Year 2020 Drinking Water State Revolving Fund Intended Use Plan**

Ms. Hannah Humphrey addressed the Commission and presented for adoption the Fiscal Year 2020 Drinking Water State Revolving Fund Intended Use Plan. She went through the document and highlighted several items for the Commission, requesting the Commission's approval of the document. Vice Chair Hazelwood made the motion to approve and Commissioner Skouby seconded it. Results of the roll call vote are as follows:

Commissioner Bockenkamp:	Absent	Commissioner Ledgerwood:	Yes
Commissioner Manning:	Absent	Commissioner Owens:	Yes
Commissioner Schmidt:	Yes	Commissioner Skouby:	Yes
Vice-Chair Hazelwood:	Yes	Chair Grove:	Yes
Commissioner Armstrong:	Absent		

**\*NOTE: Commissioner Bockenkamp lost the phone connection after the Op-Cert Update, and was unable to get reconnected, therefore he did not participate in this vote.\***

Motion carried

**New Business**

Chair Grove asked the commissioners if there was any new business to be discussed. No items were identified for discussion.

**Public Comment and Correspondence**

Chair Grove asked if there was anyone present who would like to address the Commission. Mrs. La Dawn Owens came forward with a question regarding the Primacy Fee and the difference between the fee for larger and smaller water systems. There was some discussion by the Commission about why the fees were set at different rates based on the number of connections. Chair Grove stated that more discussion regarding the Primacy Fee will take place during the upcoming stakeholder meetings.

## **Future Meetings**

Chair Grove announced the dates for upcoming SDWC meetings.

Wednesday, January 15, 2020	LCSOB, Nightingale Conference Room
Wednesday, April 15, 2020	LCSOB, Nightingale Conference Room

## **Adjournment**

Commissioner Skouby made a motion to adjourn the meeting, and Vice-Chair Hazelwood seconded it. All others voted to approve.

Motion carried. The meeting was adjourned at 12:44 p.m.

Respectfully Submitted,

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David J. Lamb, Staff Director

*Minutes taken at the Safe Drinking Water Commission meetings are not verbatim records of the meeting. Consequently, the minutes are not intended to be, and are not, a word-for-word transcription.*

## **Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item #C  
**Election of Officers**

### **Background:**

State law requires that the Commissioners select from among the members, a Chair and a Vice-Chair annually.

### **Recommended Action:**

Commissioners vote to elect a chair and vice-chair for the upcoming year.

### **Suggested Motion Language**

“I nominate (name of Commissioner) to serve as chair of the Missouri Safe Drinking Water Commission.”

I nominate (name of Commissioner) to serve as vice-chair of the Missouri Safe Drinking Water Commission.”

### **Presented by:**

Liz Grove, Chair, SDWC

## **Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # D-1  
**Missouri Water Resources Plan**

### **Issue:**

The Department is wrapping up the update of the Missouri Water Resources Plan. This presentation will provide an update to the commission about progress on the plan.

### **Background:**

The Department is directed by statute (Section 640.415, RSMo) to develop and periodically update a state water plan. The plan is intended to provide a long-range, comprehensive strategy for the water resources of the state. It does this, in part, by examining the current needs and supplies of a variety of use sectors and studying their futures through the lens of a series of possible planning scenarios.

The Department has engaged a wide range of stakeholders in updating the plan. There have been two primary opportunities for engagement, the Interagency Task Force and the Technical Workgroups. The Interagency Task Force acted as an advisory group, providing guidance and direction for the effort. There were five Technical Workgroups: Consumptive Needs, Non-Consumptive Needs, Agricultural Needs, Infrastructure, and Water Quality. The members of these groups provided subject matter expertise, gave feedback throughout the development of the plan, and guided the methodology and analyses performed as part of the plan.

Technical Workgroups and the Interagency Task Force held their last scheduled meeting on November 6, 2019. The Missouri Water Resources Plan update is largely complete, with final editing being performed. The plan will be available for comment, and the Department is requesting that the legislature approve the plan by concurrent resolution.

### **Recommended Action:**

Information only.

### **Presented by:**

Jennifer Hoggatt, Director, Water Resource Center

## **Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

### Agenda Item #D-2 **Disinfection Byproducts Project**

**Issue:**

The Department is collaborating with the United State Environmental Protection Agency Region 7 to study public water systems in Missouri with Disinfection Byproducts (DBP) compliance issues. The goal of the study is to establish DBP baselines for participating systems and to determine where DBP formation is occurring. This is an update on the results.

**Recommended Action:**

Information only.

**Attachment:**

PowerPoint presentation

**Presented by:**

Maher Jaafari, Chief, Permits and Engineering Section, PDWB

# **MISSOURI's Area-Wide Optimization Program (AWOP)**

## **Disinfection Byproducts (DBP) Study** Coordination Project between EPA - MDNR

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**Maher Jaafari, PhD, P.E. Chief**  
**Infrastructure Permits and Engineering Section**  
**Water Protection Program**

**January 15, 2020**

# Targeted Performance Improvement

- EPA Region 7 was approved for funding to study public water systems in Missouri with DBP violations.
- The Department collaborated with EPA to identify and solicit the systems to participate in the study.

# Goals of the Study

- ❑ Phase I – DBP Baseline Evaluation
  - Identify the best locations in the water system treatment plant or distribution system from which to collect samples.
  - Establish DBP baselines and determine where TTHM formation is occurring in the water system.

# Participation

- Approximately thirty (30) systems were invited to participate in the DBPs study
- Fifteen (15) systems agreed
  - Nine (9) parents systems
  - Six (6) consecutive systems

# Process

- Samples were collected by the participating systems at each location in June, July, and August 2019.
- Parent systems collected samples from the entry point to the distribution system, and maximum residence time (i.e., storage tank).
- Consecutive systems collected samples from entry point (i.e., master meter) and maximum residence time.

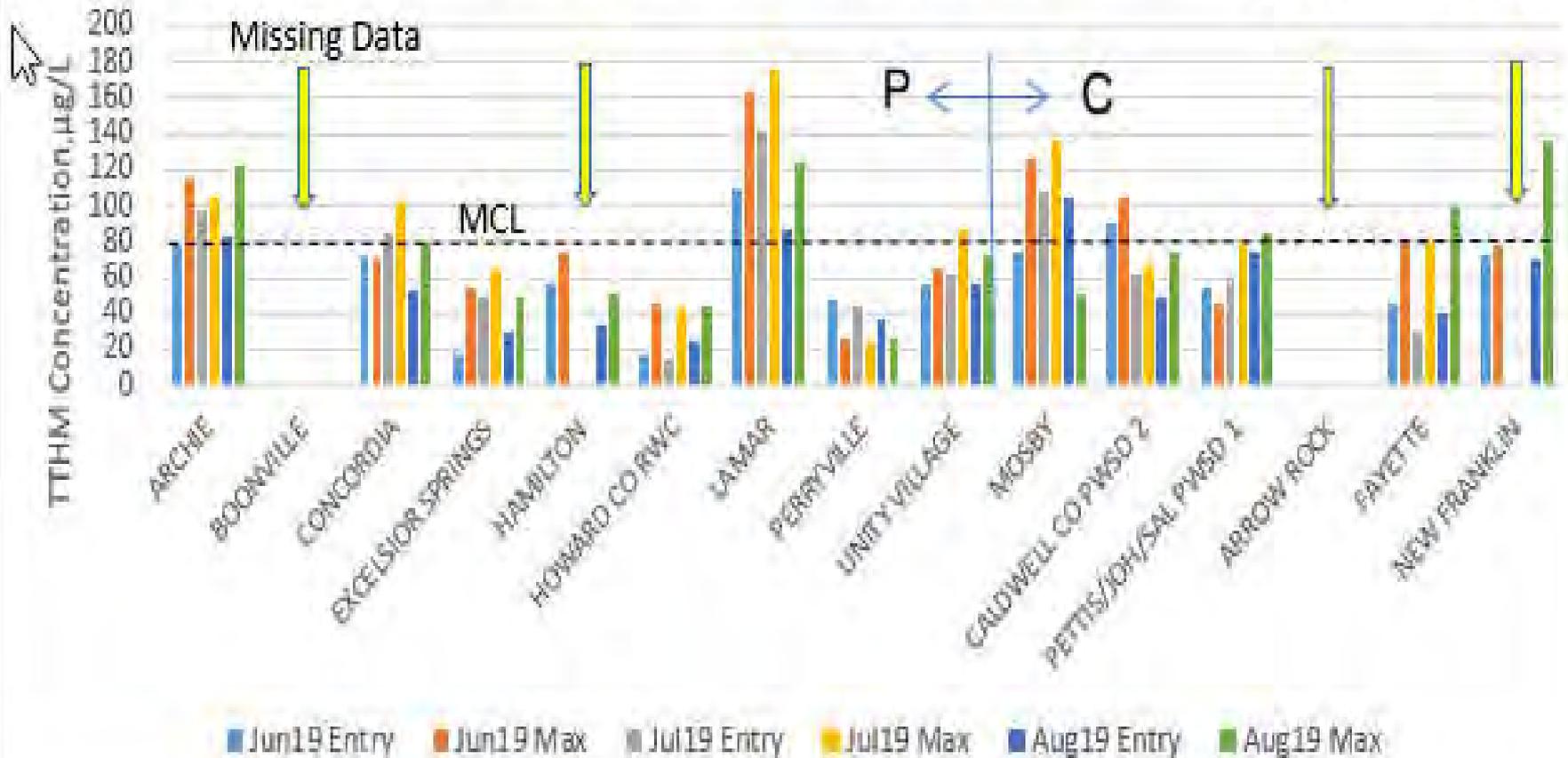
# Factors Affecting DBPs Formation

- DBP Precursors in Source Water
  - Natural Organic Matter (TOC, DOC)
  - Specific Ultraviolet Absorption (SUVA)
  - Bromide
- Applied Chlorine Dose
- Reaction Time
- Temperature
- PH



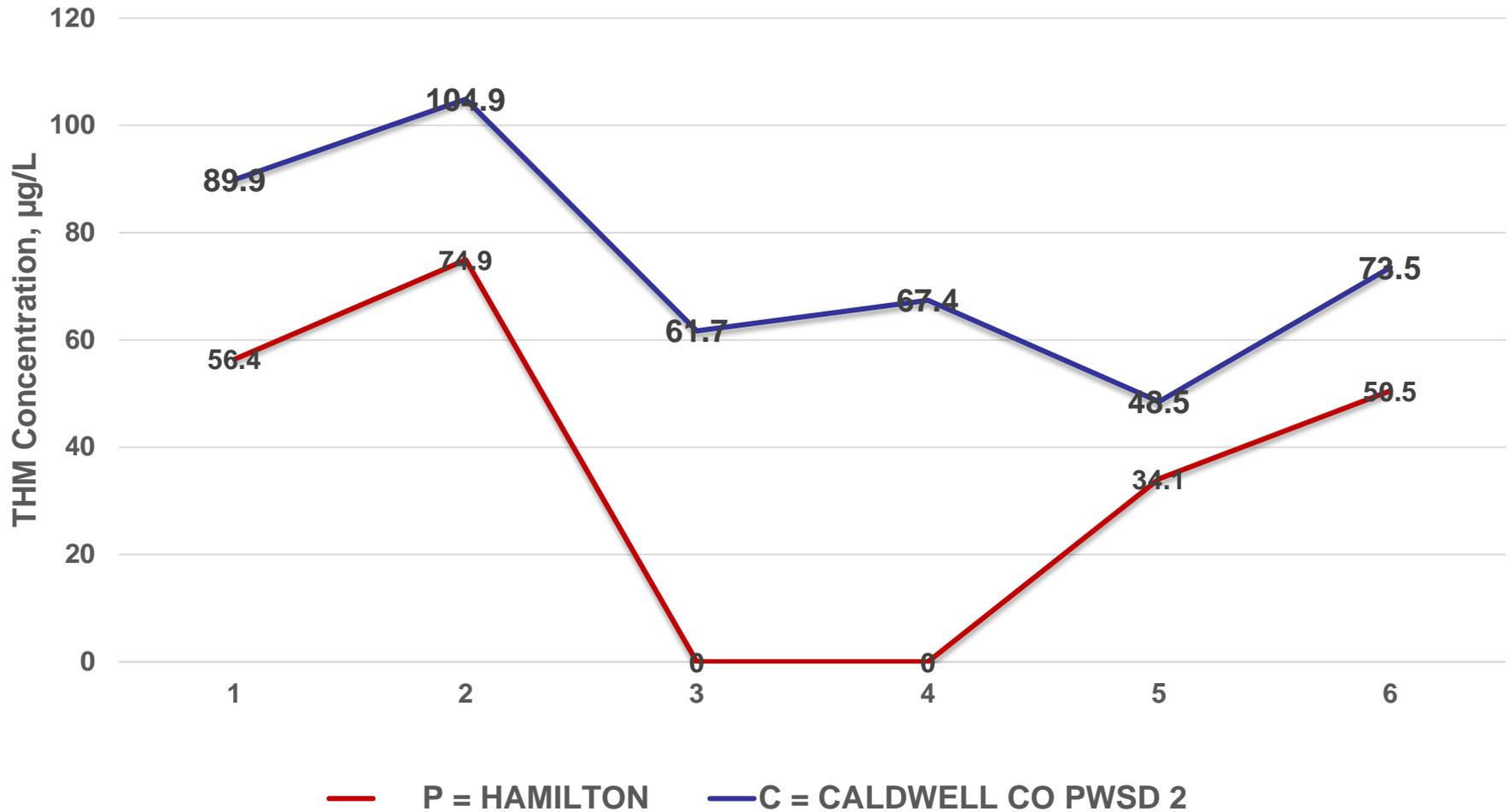
### DBPs Study TTHM Sample results

P = Parent CWS  
C = Consecutive CWS





## THM Sample Results for Parent & Consecutive Systems



# Usefulness of the Data

- The data will help to diagnose the location of TTHM formation at the system (treatment plant or distribution system).
- The collected information will be used to direct targeted technical assistance at public water systems challenged by DBP formation.

## □ Phase II – Technical Assistance

- Focus on Treatment Optimization
  - Steps to reduce TTHM formation in the Water Treatment Plant (WTP)
  - Determine if additional treatment is necessary to reduce TTHM and the associated capital cost.
- Focus on Distribution System Optimization



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NATURAL RESOURCES

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THANK YOU.

QUESTIONS?

## **Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # D-3

### **EPA's Proposed Lead and Copper Rule**

**Issue:**

Proposed Lead and Copper Rule Revisions (Long Term Revisions) were published in the Federal Register on November 13, 2019. The revisions are contained in 40 CFR Parts 141 and 142 of the National Primary Drinking Water Regulations. The revisions will greatly impact Missouri Community and Non-transient Non-community water systems in Missouri and across the nation. The Missouri Department of Natural resources will also be heavily impacted by this rule change through its implementation, management and reporting requirements. This PowerPoint presentation will discuss the major changes that are proposed in the rule revisions.

**Recommended Action:**

Information only.

**Attachment:**

PowerPoint Presentation

**Presented by:**

Jeff Pinson, Lead and Copper Rule Manager, PDWB



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# Public Drinking Water Proposed Lead and Copper Rule

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January 15, 2020

Jeff Pinson, Lead and Copper Coordinator

# Long Term Revisions to the LCR

- Trigger Level
- Corrosion Control Treatment (CCT)
- Lead Service Line Inventory (LSL)
- Lead Service Line Replacement (LSLR)
- Alternatives for Small Systems
- Public Education
- Monitoring Requirements

# Long Term Revisions to the LCR

- Water Quality Parameters
- Source Water Monitoring
- Monitoring at Schools and Child-care Facilities
- Reporting
- Find and Fix
- Other

# Trigger Level

- Actions required at a new level of 10ug/L.
- Monitoring increased to annually at the standard number of samples.
- Corrosion Control Treatment Study or re-optimize CCT if already in place.
- Outreach to customers with LSLs or unknown materials.
- Implement LSLR at agreed upon goals.

# Corrosion Control Treatment (CCT)

- Evaluation required during sanitary surveys, including a review of Water Quality Parameters (WQP).
- CCT based on 90<sup>th</sup> percentiles:
  - Re-optimize CCT if above the trigger level.
  - CCT study and recommendation if the water system has no CCT and exceeds the trigger level.
  - Implement CCT study recommendation if 90<sup>th</sup> percentile exceeds the action level of 15 ug/L.
  - Remove Calcium Carbonate Stabilization as a CCT.
  - Orthophosphate as the main CCT.
    - Phosphorous loading is an issue.

# Lead Service Line Inventory (LSL)

- Require all systems to complete a LSL inventory.
- Make the LSL inventory publicly available.
- EPA is not proposing to use addresses in the process.
- Submit the LSL inventory to the State three years after the rule is promulgated.
- Treat downstream galvanized pipe as lead.
- Notify owners with LSL or “unknown” annually.
- Update inventory annually and submit to the State.

# Lead Service Line Replacement (LSLR)

- Require all systems prepare a LSLR plan.
- Submit the plan to the State three years after the rule is promulgated.
- Replacement goals for systems exceeding the trigger level.
- Mandatory replacement for systems exceeding the action level.
- Disturbance – require notification, point of use, and sampling.
- Eliminate the requirement for partial LSLR.

# Small System Flexibility

- Trigger level exceedance – select an alternative.
- Action level exceedance – implement alternative.
- Three compliance alternatives for small communities and non-transient noncommunity (NTNC) systems.
- New definition  $\leq 10,000$  in population.
  - Full LSLR within 15 years. If trigger level exceedance, the system must perform LSLR until none exist.
  - Install and maintain OCCT.
  - Install and maintain POU treatment.
  - NTNC – replacement of all lead containing plumbing materials is an option only available to NTNC.

# Public Education

- Mandatory public health language revised; identical for the new Consumer Confidence Report and Public Notification requirements.
- Require 24-hour notification and implement “find and fix” for single sample results over the action level.
- Provide all customers with LSLs and “unknown” service lines the health effects language within 30 days of completing the LSL inventory and annually thereafter.
- Perform public education at schools and child-care facilities.

# Monitoring Requirements

- New sampling tiers:
  - Tier 1 – single family residence with lead service lines.
  - Tier 2 – multi-family residence with lead service lines.
  - Tier 3 – single family residence with copper pipe and lead solder.
  - Tier 4 – representative sample.
- Water systems must collect all tap samples at LSLs.
- Trigger level exceeders must sample annually for three years under 10 ug/L at standard number of sites before reduced monitoring.

# Monitoring Requirements

- Prohibit pre-stagnation flushing.
- Prohibit removal of aerators.
- Wide-mouth sample bottles.
- “Find and Fix” and water quality parameters (WQPs).
- Source water monitoring not required if:
  - Monitoring during prior ALE.
  - State determination treatment is not needed.
  - No new sources added.

# Sampling at Schools and Child-Care Facilities

- Develop a list of all schools and child-care facilities in water distribution and update every five years.
- Perform public education.
- Sample for lead every five years by performing 20% annually.
- Number of samples: five at each school and two at each child-care facility using 250 ml bottles.
- Share results with facility and local health officials.
- Document refusal to sample.

# Find and Fix

- Follow-up samples at system above 15 ug/L for lead within 30 days.
- Results not included in 90<sup>th</sup> percentile.
- Provide results in 30 days of receipt.
- Collect WQP samples.
- Determine if CCT problems are causing elevated results.
- Submit mitigation solution to state for approval within six months.

# Reporting Requirements

- Four new certifications required:
  - LSL customer notification was performed if trigger level is exceeded.
  - Sampling and notification was performed at 20% of schools and child-care facilities annually.
  - Results were shared with schools, child-care facilities, and local health officials.
  - Certify annually to the state if no schools or child-care facilities are served.

# Reporting Requirements

- Submit the following:
  - Sampling protocol for state approval.
  - LSL inventory annually to the state.
  - LSLR plan for state approval.
  - If trigger level is exceeded for small systems, submit chosen alternative for approval.
  - CCT solution for state approval under “find and fix” provisions.

# Reporting Requirements

- State record keeping and reporting:
  - Maintain records of all LSL and updated annual changes.
  - Maintain records for changes to source water treatment.
  - Maintain records for “find and fix” efforts.
  - Maintain records of the compliance alternative small and NTNC water systems chooses and State approves.
  - OCCT status of all water systems.
  - 90th percentiles for all water systems.
  - Current number of LSL annually for all water systems.

# Other Proposed Revisions

- Mandatory health language in the CCR.
- Perform public notification (PN) within 24 hours of learning of the action level exceedance. Use existing Tier 1 PN requirements. Must notify the State and EPA in the same timeframe.

# Primacy Requirements

- Adopt drinking water regulations no less stringent than federal regulations.
- Adopt and implement adequate enforcement procedures.
- Make records and reports available on activities required by regulation.
- Variances and exemptions no less stringent than allowed by the SDWA.

# Primacy Requirements

- Submit revised program within two years for EPA approval.
- Special primacy requirements:
  - Provide description of methods for verification of LSL materials.
  - Submit criteria for determining goal based LSLR.
  - Must demonstrate “no less stringent than” for testing in schools.
  - Demonstrate how the State will verify “find and fix.”
  - Describe how the State will review source water or treatment changes.



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

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Questions?  
Thank you.

## **Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # D-4  
**Fee Stakeholder Meetings**

**Issue:**

The Public Drinking Water Branch will initiate fee discussions with stakeholders starting January 23, 2020. This agenda item will allow the Branch the opportunity to update the Commission on the status of fee stakeholder efforts and answer any questions leading into this effort.

**Recommended Action:**

Information only.

**Presented by:**

David Lamb, Chief, Public Drinking Water Branch

## **Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # D-5

### **Unregulated Contaminant Monitoring Rule 4 (UCMR4) and Per- and Polyfluoroalkyl Substances (PFAS) Updates**

#### **Issue:**

The Unregulated Contaminant Monitoring Rule (UCMR) requires every large public water system (PWS) over 10,000 population to participate every five years in collecting occurrence data across the nation for EPA. Thirty (30) priority contaminants are selected from a contaminant candidate list comprised of chemicals, chemical groups or microbes that: 1) Have known or suspected health effects, 2) Have known or are anticipated to occur in public water systems, and 3) May require regulation under the Safe Drinking Water Act.

Missouri, per state statute, must provide analytical testing for required monitoring. Pace Analytical Services, LLC (Pace) was selected to perform the analytical testing for the large water systems under UCMR4 for Missouri. A randomly selected subset of about 800 PWS across the nation are also required to monitor but EPA provides the testing through their contract lab. Pace is the same analytical lab that Missouri used for UCMR3.

December 2019 marked the end of large system routine monitoring, although some smaller systems will continue monitoring through 2020 in Missouri. There can be a lag of up to six months from the time a sample is collected until the data is reported on EPA's website. A summary of what has been found in Missouri under UCMR4 will be presented.

Additionally, PFAS has continued to gain nationwide attention since UCMR3. It is anticipated UCMR5 will test mainly for PFAS as part of the 30 contaminants to be tested, and with lower detection limits than when UCMR3 sampling was completed. The second update will discuss the PFAS sampling efforts Missouri has conducted and potential sampling in the near future.

#### **Recommended Action:**

Informational purposes only.

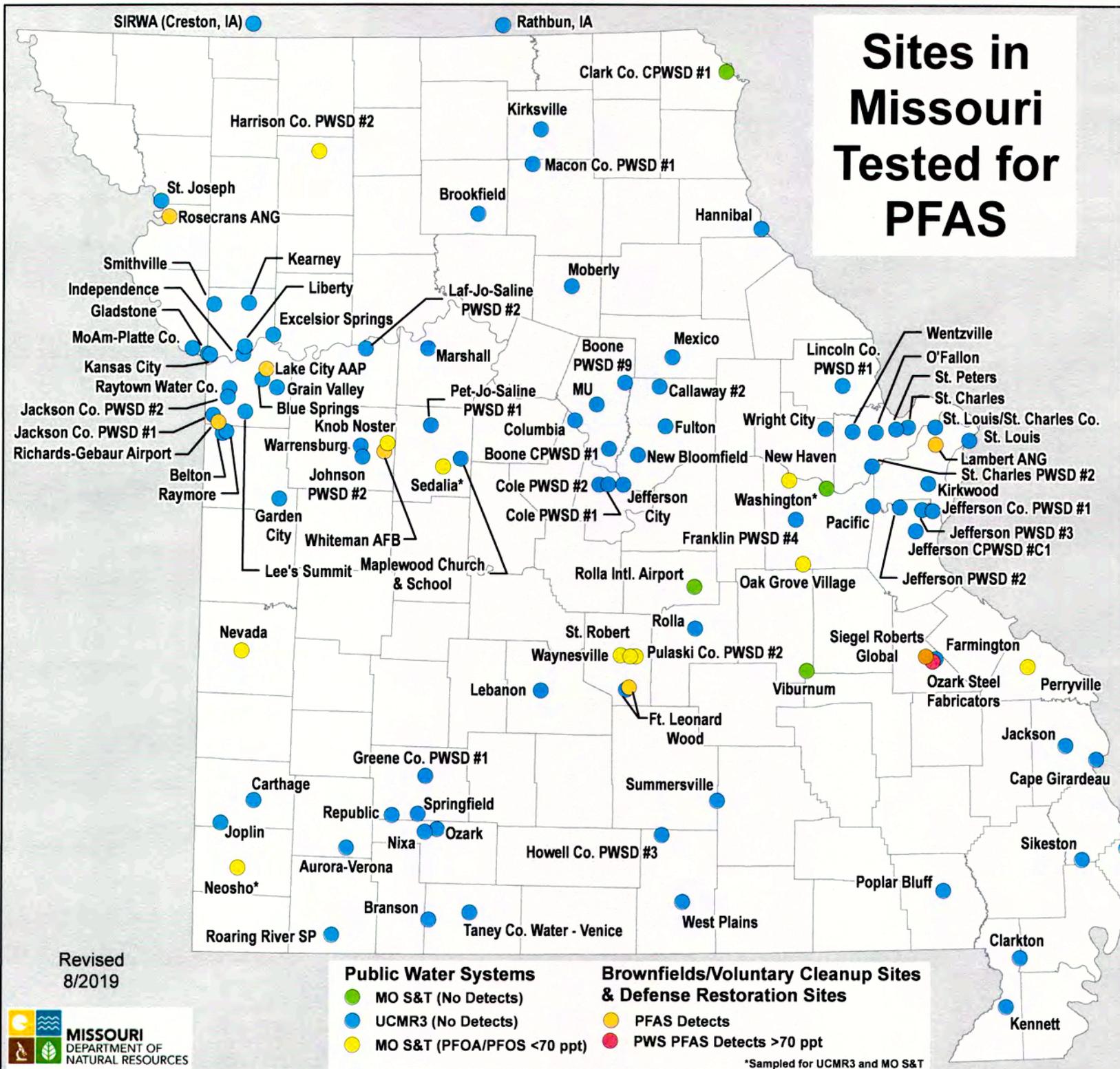
**Attachment:**

UCMR4 and PFAS PowerPoint presentation  
MO PFAS Tested Sites-August 2019.pdf

**Presented by:**

Eric Medlock, Chemical Monitoring Coordinator, Monitoring Section

# Sites in Missouri Tested for PFAS



## Sampled Public Water Systems

**UCMR3:**  
44 - Groundwater  
40 - Surface Water

**MO S&T:**  
13 - Groundwater  
2 - Surface Water

**UCMR3 & MO S&T:**  
2 - Groundwater  
1 - Surface Water

**Total Population Served of PWSs Sampled:**  
4,093,525  
(76% of 5,364,153 served)

Analyte	Minimum Reporting Level (ppt)	
	UCMR3	MO S&T
PFOS	40	0.2
PFOA	20	0.2
PFNA	20	N/A
PFHxS	30	N/A
PFHpA	10	N/A
PFBS	90	N/A

PWS Facility	Sample Site	MO S&T PFAS Detections			
		September 2016		February 2017	
		PFOA (ppt)	PFOS (ppt)	PFOA (ppt)	PFOS (ppt)
Neosho PWS (SW)*	Raw	0.68	1.04	0.42	1.59
	Finished	0.67	1.05	0.31	0.60
Nevada PWS	Raw	<0.2	<0.2	0.57	0.50
	Finished	<0.2	<0.2	<0.2	<0.2
Waynesville PWS	Raw	0.43	<0.2	<0.2	<0.2
	Finished	0.26	<0.2	<0.2	<0.2
Pulaski Co. PWS #2	Raw	N/A	N/A	N/A	N/A
	Finished	<0.2	0.32	<0.2	0.30
Perryville PWS (SW)	Raw	0.66	0.68	0.24	0.29
	Finished	0.51	0.72	0.24	0.27
Knob Noster PWS	Raw	<0.2	<0.2	<0.2	<0.2
	Finished	0.30	0.82	<0.2	<0.2
Oak Grove Village PWS	Raw	<0.2	0.43	0.28	0.43
	Finished	<0.2	0.46	0.29	0.54
New Haven PWS	Raw	<0.2	<0.2	N/A	N/A
	Finished	0.41	<0.2	<0.2	<0.2
Sedalia PWS*	Raw	<0.2	<0.2	<0.2	<0.2
	Finished	<0.2	1.21	<0.2	<0.2
Harrison Co. PWS #1	Raw	0.35	<0.2	N/A	N/A
	Finished	0.31	<0.2	N/A	N/A
St. Robert PWS	Raw	<0.2	0.25	<0.2	0.24
	Finished	<0.2	0.25	<0.2	0.24

## Other Sites Sampled (soil, monitoring wells, surface water)

MoDNR Defense Sites Restoration Unit - PFAS Report	
Location	PFAS Testing Summary
Lake City AAP - Independence	24 PWS samples - Only PFHpA detected (6.3 ppt).
Whiteman AFB	4 AFFF sites tested with 0.56-4,900 ppb PFOA/PFOS. PWS not impacted.
Richards-Gebaur AFB	6 sites tested with 0.73-329 ppb PFOA/PFOS. PWS not impacted.
Ft. Leonard Wood PWS	18 samples at PWS Treatment Plant (2013) - no detects.
Lambert ANG - St. Louis	3 sites tested with 0.02-0.57 ppb PFOA/PFOS. No known wells in area.
Rosecrans ANG - St. Joseph	6 of 9 monitoring well and 2 surface water sites with .01-34 ppb PFOA/PFOS. PWS not impacted.
MoDNR Brownfields/Voluntary Cleanup (BFVC) Section	
Location	PFAS Testing Summary
Siegel Roberts Global - Farmington	15 monitoring wells with PFAS detections up to 2.8 ppb. Contaminated offsite Ozark Steel Fabricators well.
Ozark Steel Fabricators - Farmington	Inactivated PWS after connection to Farmington PWS from BFVC site impacted well.

**Public Water Systems**  
 ● MO S&T (No Detects)  
 ● UCMR3 (No Detects)  
 ● MO S&T (PFOA/PFOS <70 ppt)

**Brownfields/Voluntary Cleanup Sites & Defense Restoration Sites**  
 ● PFAS Detects  
 ● PWS PFAS Detects >70 ppt

\*Sampled for UCMR3 and MO S&T





# Unregulated Contaminant Monitoring Rule 4 (UCMR4) And Per- and Polyfluoroalkyl Substances (PFAS) Updates

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Eric Medlock



## Contaminant Candidate List (CCL)

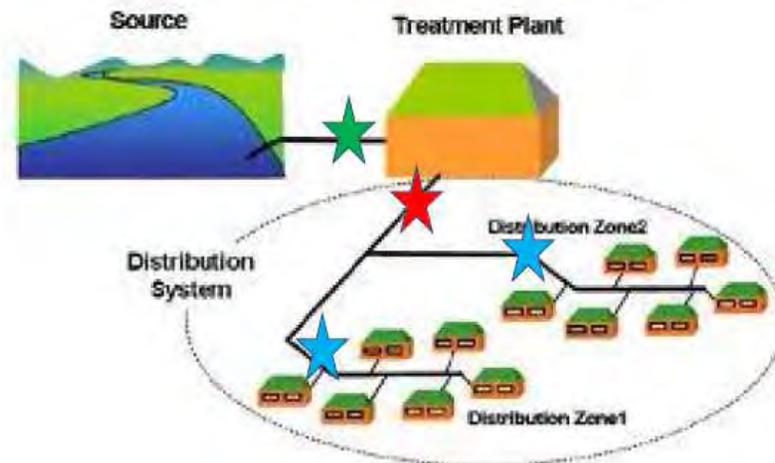
- List of priority unregulated contaminants with known or suspected health effects that may be regulated in the future
  - Published every five years
  - Known or anticipated to occur in public water systems (PWSs) [Groundwater(GW), Surface Water (SW), or Groundwater Under the Direct Influence (GWDUI)]
  - May require regulation under SDWA

**The Final CCL 4 was published November 17, 2016 and included 97 chemicals or chemical groups and 12 microbes**



## Where Do You Sample?

- ★ ➤ **Bromide and Total Organic Carbon (TOC) – Raw source water tap site**
- ★ ➤ **Cyanotoxins and chemicals – Entry Point to the Distribution System (post all treatment)**
- ★ ➤ **Haloacetic Acids (HAA) – Stage 2 Disinfection Byproduct (DBP) sites**





## Harmful Algal Blooms –

UCMR4 Missouri sampling had no detection of cyanotoxins in finished water during 4 month, bi-weekly sampling from March - November

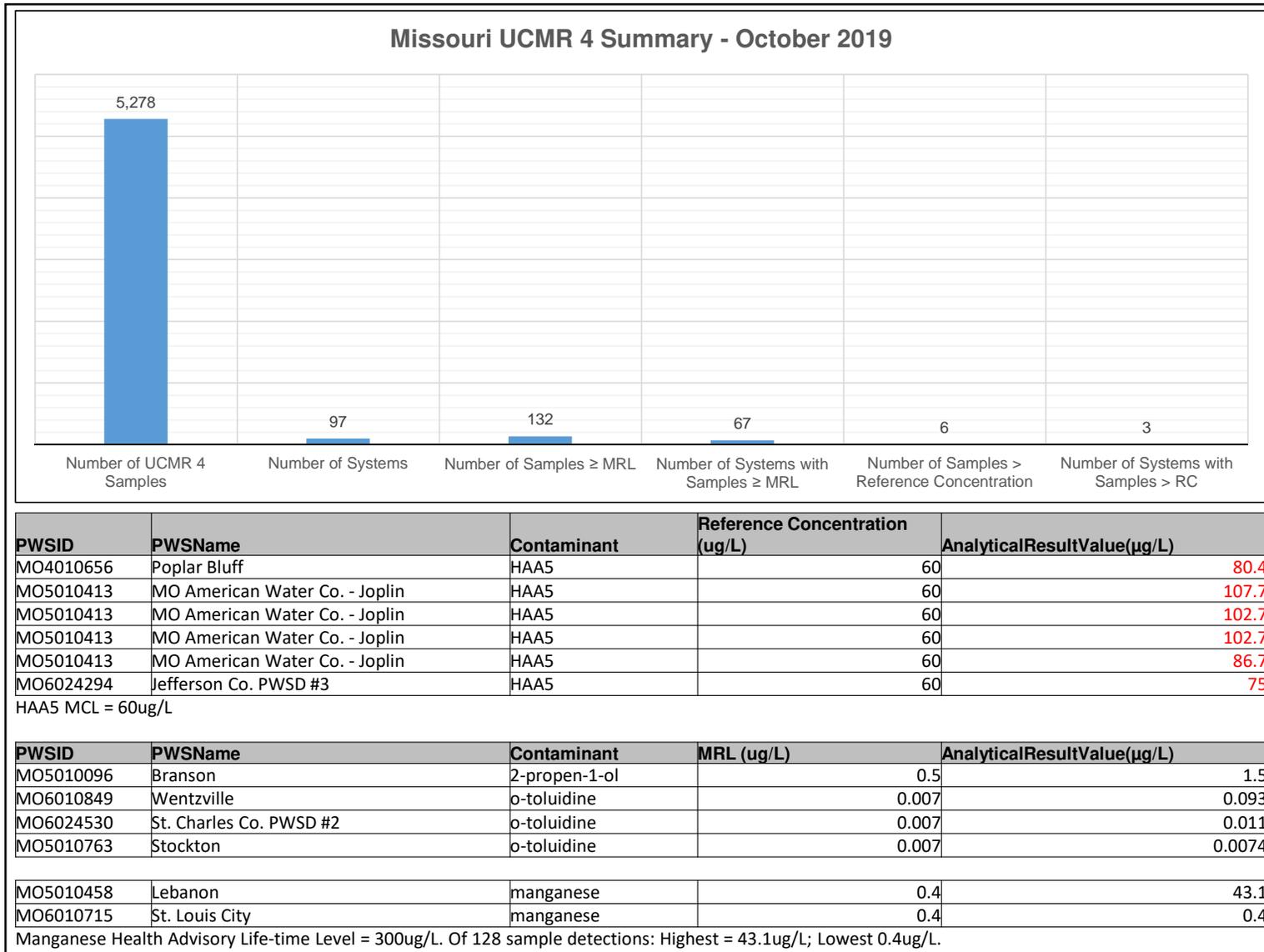


October 9, 2011

Photo: USDA/Scott/istockphoto

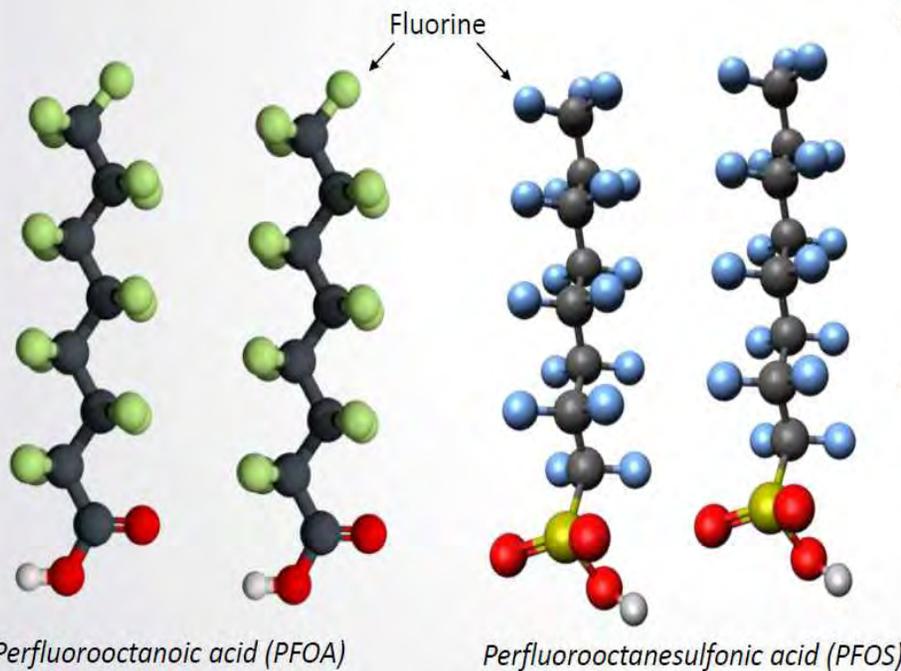
Many SW systems add carbon – a best available treatment technique for organics removal and cyanotoxins

Contaminant	Sample Point Type	MRL (ug/L)	Reference Concentration (ug/L)	# of MO Samples	# of MO Samples ≥ MRL	# of MO Systems with Samples ≥ MRL	# of MO Samples > Reference Concentration	# of MO Systems with Samples > Reference Concentration
1-butanol	Entry Point	2	700	198	0	0	0	0
2-methoxyethanol	Entry Point	0.4	NA	198	0	0	NA	NA
<b>2-propen-1-ol</b>	Entry Point	<b>0.5</b>	<b>35</b>	<b>198</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
alpha-hexachlorocyclohexane	Entry Point	0.01	0.006 / 0.6	202	0	0	0 / 0	0 / 0
anatoxin-a	Entry Point	0.03	NA	294	0	0	NA	NA
butylated hydroxyanisole	Entry Point	0.03	NA	200	0	0	NA	NA
chlorpyrifos	Entry Point	0.03	2	202	0	0	0	0
cyindrospermopsin	Entry Point	0.09	0.7 / 3	294	0	0	0 / 0	0 / 0
dimethipin	Entry Point	0.2	140	202	0	0	0	0
ethoprop	Entry Point	0.03	1.14 / 114	202	0	0	0 / 0	0 / 0
germanium	Entry Point	0.3	NA	196	0	0	NA	NA
<b>HAA5</b>	Distribution System		<b>60</b>	<b>332</b>	<b>-</b>	<b>-</b>	<b>6</b>	<b>3</b>
HAA6Br	Distribution System	NA		332	-	-	NA	NA
HAA9	Distribution System	NA		332	-	-	NA	NA
<b>manganese</b>	Entry Point	<b>0.4</b>	<b>300</b>	<b>196</b>	<b>128</b>	<b>67</b>	<b>0</b>	<b>0</b>
<b>o-toluidine</b>	Entry Point	<b>0.007</b>	<b>NA</b>	<b>200</b>	<b>3</b>	<b>3</b>	<b>NA</b>	<b>NA</b>
oxyfluorfen	Entry Point	0.05	200	202	0	0	0	0
profenofos	Entry Point	0.3	0.3	202	0	0	0	0
quinoline	Entry Point	0.02	0.01 / 1	200	0	0	0 / 0	0 / 0
tebuconazole	Entry Point	0.2	190	202	0	0	0	0
total microcystin	Entry Point	0.30	0.3 / 1.6	290	0	0	0 / 0	0 / 0
total permethrin	Entry Point	0.04	3.344 / 334.4	202	0	0	0 / 0	0 / 0
tribufos	Entry Point	0.07	0.6	202	0	0	0	0



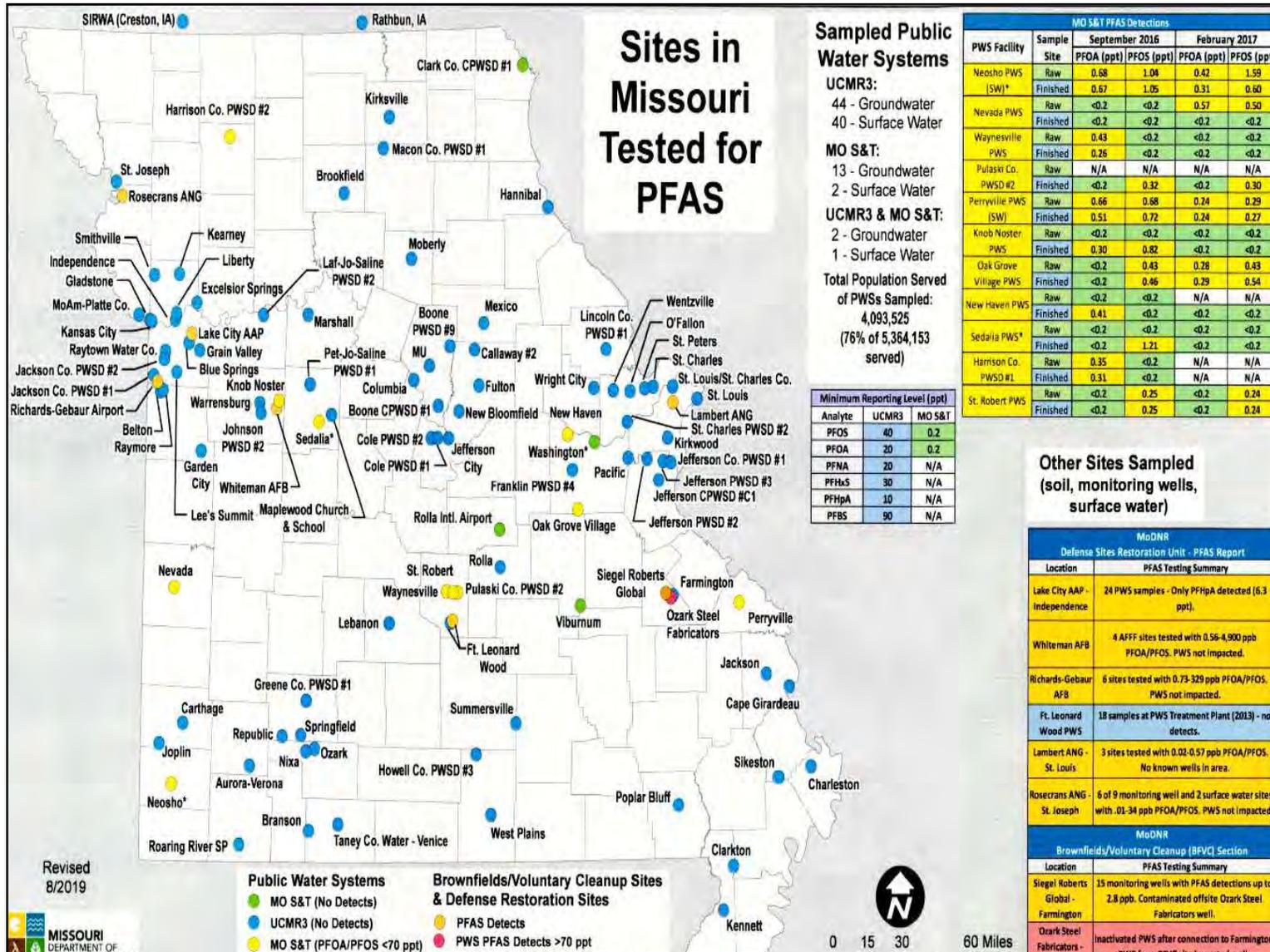


## Per- and Polyfluoroalkyl Substances (PFAS)



### ➤ A class of man-made chemicals

- Chains of carbon (C) atoms surrounded by fluorine (F) atoms
  - Water-repellent (hydrophobic)
  - Stable C-F bond
- Some PFAS include oxygen, hydrogen, sulfur and/or nitrogen atoms, creating a polar end



Revised 8/2019



0 15 30 60 Miles



# Unregulated Contaminant Monitoring Rule 4 (UCMR4) And Per- and Polyfluoroalkyl Substances (PFAS) Updates

*Questions*

**Eric Medlock**

Chemical Monitoring Coordinator  
Public Drinking Water Branch

**Phone: (573) 522-5028**

**Email: [eric.medlock@dnr.mo.gov](mailto:eric.medlock@dnr.mo.gov)**

**Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # D-6  
**Attorney General's Office Legal Update**

**Issue:**

Routine update to the Commission regarding legal issues, appeals, etc.

**Recommended Action:**

Information only.

**Presented by:**

Tim Duggan, Assistant Attorney General, AGO

**Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # D-7  
**Branch Chief's Update**

**Issue:**

Routine update to the Commission regarding Public Drinking Water Branch activities

**Recommended Action:**

Information only.

**Presented by:**

David Lamb, Chief, Public Drinking Water Branch

## **Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item #E

### **Fiscal Year 2020 Drinking Water State Revolving Fund Intended Use Plan Amendment**

#### **Issue:**

Proposed Amendments to the Fiscal Year (FY) 2020 Drinking Water State Revolving Fund (DWSRF) Intended Use Plan (IUP) Comprehensive List and Fundable Project Lists

#### **Background:**

Financial Assistance Center staff is recommending that the project lists for the Fiscal Year (FY) 2020 Drinking Water State Revolving Fund Intended Use Plan (IUP) be amended as follows:

- The City of Bowling Green has recently submitted sufficient documentation of voter approved bonds and a revised application for the reduced amount of \$882,450 for distribution improvements. This project now meets the “readiness to proceed” criteria and will be moved from the Planning List to the Small Community 15% Reserve Fundable List for \$882,450 in loan funds. Priority points will be changed to 41 based upon the revised application.
- The Missouri American Water Company (MAWC) modified their application to request a reduced loan amount of \$12,208,539. The decrease is the result of bids coming in lower than estimated and the inclusion of ineligible costs in the original application. The project will replace one of their existing clear wells and associated high service pumps. The estimated financing quarter will be adjusted to reflect loan closing anticipated in the 2<sup>nd</sup> quarter of 2020. The company is the first DWSRF borrower to utilize the Design Build alternative procurement method, available since regulations were amended effective February 28, 2018.
- The City of Pierce City, City of Carrollton, City of Centralia, and City of Lanagan estimated financing quarter will be adjusted to reflect loan closing anticipated in the 3<sup>rd</sup> quarter of 2020.
- The above changes increase the available fund balance from \$42,343,055 to \$48,489,170.

**Recommended Action:** Staff recommends the adoption of the FY 2020 DWSRF IUP amendments.

- Move the Bowling Green (DW291167-04) project to the Small Community 15% Reserve Fundable List for project costs in the amount of \$882,450 with 41 priority points.
- Reduce the loan Missouri American Water Company (DW291375-01) amount requested and loan amount to \$12,208,539.
- Adjust the estimated financing quarter to the 2<sup>nd</sup> quarter of 2020 for Missouri American Water Company.
- Adjust the estimated financing quarter to the 3<sup>rd</sup> quarter of 2020 for Pierce City, Carrollton, Centralia, and Lanagan.

**Suggested Motion Language:**

“I move that the Safe Drinking Water Commission approve the Fiscal Year 2020 Drinking Water State Revolving Fund Intended Use Plan amendments as presented.”

**Attachments:**

FY 2020 DWSRF IUP amendment

**Presented by:**

Darleen Groner, P.E., Chief, Drinking Water Unit, Financial Assistance Center



# **MISSOURI DEPARTMENT OF NATURAL RESOURCES**

**Fiscal Year 2020**

(Reporting Year Oct. 1, 2019 – Sept. 30, 2020)

## **Drinking Water State Revolving Fund Intended Use Plan**

**Adopted - October 16, 2019**

***Proposed Amendment January 15, 2019***

## List of Fiscal Year 2020 Applicants

	Applicant	Priority Points	Service Area Pop.	Financial Assistance Request
C	Bowling Green ( <del>Treatment and Distribution</del> )	<del>60</del> 41	5,334	<del>\$ 2,254,000</del> \$ 882,450
C	Brashear	54	273	\$ 950,748
	Camden County PWSD #1	95	1,165	\$ 3,417,000
C	Carrollton PWS	45	3,784	\$ 4,180,647
C	Centertown	114	278	\$ 2,929,515
C	Centralia	25	4,027	\$ 2,516,290
	Chamois	105	396	\$ 1,514,707
	Clarkton	82	1,288	\$ 3,627,052
C	Lanagan	105	420	\$ 400,000
C	Laurie	45	945	\$ 1,313,795
C	Madison County PWSD #1	85	1,009	\$ 3,227,225
	Marshfield	73	6,633	\$ 6,151,126
	Missouri American Water-Jefferson City Plant Upgrades	40	32,000	<del>\$ 19,237,104</del> \$ 12,208,539
	Newburg	90	470	\$ 1,129,826
C	Pierce City	71	1,261	\$ 4,693,170
C	Plattsburg	81	2,319	\$ 3,829,785
	Princeton	115	1,166	\$ 2,064,063
	Saline County PWSD #1	52	591	\$ 1,096,462
	Silex	100	283	\$ 2,266,138
	Southwest Rural Water Supply	77	2,700	\$ 1,921,500
C	Urbana	55	417	\$ 1,161,933
	Warsaw	65	2,125	\$ 4,905,003
<b>Total Comprehensive List Projects</b>				<del>\$ 74,787,089</del> <b>\$ 66,386,974</b>

**Note:** C = Carried over from the last Intended Use Plan

## Allocation Of Available Loan Funds

Missouri law requires that twenty percent and fifteen percent of available funds, respectively, shall be made available to water systems serving populations of 3,300 or less (designated as very small communities) and water systems serving populations of 3,301 to 9,999 (designated as small communities). The remaining sixty five percent (designated for general community) is not restricted by population served.

- The fundable project lists may change significantly between the draft Intended Use Plan placed on public notice and the final version approved by the Safe Drinking Water Commission.
- The inclusion of a project on the fundable list is not a guarantee of funding. Other factors, such as timely progress, compliance with program requirements and funding availability, may impact project funding.
- If a system is utilizing an Engineering Report Services Grant from the Department, their SRF project was reduced by the total engineering grant amount.

### Allocation of Available Funds

Funding Category	Percent of Fundable List Allocation	Loan	Additional Subsidization	Total
Very Small Community (1)	20%	\$ 3,756,980	\$ 18,602,841	\$ 22,359,821
Small Community (2)	15%	\$ 16,769,866	\$ -	\$ 16,769,866
General Community	65%	\$ 72,669,419	\$ -	\$ 72,669,419
<b>Total Allocation of Available Funds</b>		<b>\$ 93,196,265</b>	<b>\$ 18,602,841</b>	<b>\$ 111,799,106</b>

(1) Service area population of 3,300 or fewer.

(2) Service area population of 3,301 to 9,999.

### Financial Summary of the Fundable Projects

	Loans				Additional Subsidization			
	Very Small Community	Small Community	General Community	Total	Very Small Community	Small Community	General Community	Total
Allocation of Available Funds	\$ 3,756,980	\$ 16,769,866	\$ 72,669,419	\$ 93,196,265	\$ 18,602,841	\$ -	\$ -	\$ 18,602,841
Total Projects on Fundable List (1)	\$ 18,768,043	\$ 13,730,513	\$ 12,208,539	\$ 44,707,095	\$ 18,602,841	\$ -	\$ -	\$ 18,602,841
Transfer	\$ 3,039,353	\$ (3,039,353)		\$ -	\$ -	\$ -	\$ -	\$ -
	\$ 11,971,710		\$ (11,971,710)	\$ -				
Funding Assistance Planned (2)	\$ 18,768,043	\$ 13,730,513	\$ 60,697,709	\$ 93,196,265	\$ 18,602,841	\$ -	\$ -	\$ 18,602,841
Balance Available after Projects Funded (3)	\$ -	\$ -	\$ 48,489,170	\$ 48,489,170	\$ -	\$ -	\$ -	\$ -

(1) From the Project Lists on the subsequent pages.

(2) Funding Assistance Planned = Allocation + Transfers.

(3) Balances may be shifted to other categories to fund projects that are ready to proceed.

**DWSRF Fiscal Year 2020 Project Priority Lists**

Carryover	Disadvantaged	Priority Points	Applicant	Project #	Description/ Needs Category	Service Area Population	Amount Requested	Loan Amount	Additional Subsidization Amount	Est. Financing Schedule FY - Quarter
<i>Note: An explanation of the abbreviations and codes appears at the end of the project lists.</i>										
<b>FUNDABLE LIST - AVAILABLE FUNDS</b> (Debt instrument secured and facility plan submitted)								<b>\$ 93,196,265</b>	<b>\$ 18,602,841</b>	
<b>Very Small Community</b> (Systems that serve a population of 3,300 or fewer)								<b>\$ 18,768,043</b>	<b>\$ 18,602,841</b>	
	D	115	Princeton	DW291370-01	TP, Dis, Stor Rehab, Well, Well Rehab	1,166	\$ 2,064,063	\$ 516,016	\$ 1,548,047	20-4
C	D	114	Centertown	DW291337-02	Stor, Dis, Well	278	\$ 2,929,515	\$ 929,515	\$ 2,000,000	20-4
	D	105	Chamois*	DW291365-01	Well, Stor Rehab, Dis	396	\$ 1,514,707	\$ 345,000	\$ 1,035,000	20-4
C	D	105	Lanagan	DW291374-01	TP, Dis	420	\$ 400,000	\$ 100,000	\$ 300,000	<b>20-4</b> <b>20-3</b>
	D	100	Silex	DW291377-01	TP, Dis, Stor	283	\$ 2,266,138	\$ 566,534	\$ 1,699,604	20-4
	D	95	Camden County PWSD #1	DW291373-01	Dis, Stor, TP, Stor Rehab, Well, Well Rehab	1,165	\$ 3,417,000	\$ 1,417,000	\$ 2,000,000	20-4
	D	90	Newburg	DW291229-02	Dis, Stor, Well Rehab	470	\$ 1,129,826	\$ 282,456	\$ 847,370	20-4
C	D	85	Madison County PWSD #1	DW291364-01	Dis, Well, Stor	1,009	\$ 3,227,225	\$ 1,227,225	\$ 2,000,000	20-2
	D	82	Clarkton*	DW291372-01	Dis, Stor Rehab, Well Rehab, TP	1,288	\$ 3,627,052	\$ 995,000	\$ 2,000,000	20-4
C	D	71	Pierce City	DW291345-01	Dis, Stor Rehab, TP	1,261	\$ 4,693,170	\$ 2,693,170	\$ 2,000,000	<b>20-2</b> <b>20-3</b>
	D	65	Warsaw*	DW291293-02	Dis	2,125	\$ 4,905,003	\$ 1,278,700	\$ 1,316,024	20-4
C	D	55	Urbana	DW291367-01	Dis	417	\$ 1,161,933	\$ 290,483	\$ 871,450	20-4
C	D	45	Laurie	DW291312-02	Dis	945	\$ 1,313,795	\$ 328,449	\$ 985,346	20-3
C		81	Plattsburg	DW291210-03	Dis, Stor	2,319	\$ 3,829,785	\$ 3,829,785	\$ -	20-4

Carryover	Disadvantaged	Priority Points	Applicant	Project #	Description/ Needs Category	Service Area Population	Amount Requested	Loan Amount	Additional Subsidization Amount	Est. Financing Schedule FY - Quarter
		77	Southwest Rural Water Supply	DW291371-01	Dis, Stor, Well	2,700	\$ 1,921,500	\$ 1,921,500	\$ -	20-4
C		54	Brashear	DW291347-01	Stor	273	\$ 950,748	\$ 950,748	\$ -	20-4
		52	Saline County PWSD #1	DW291359-01	Dis, Stor	591	\$ 1,096,462	\$ 1,096,462	\$ -	20-4
<b>Very Small Community Total</b>							<b>\$ 40,447,922</b>	<b>\$ 18,768,043</b>	<b>\$ 18,602,841</b>	
<b>Balance</b>								<b>\$ -</b>	<b>\$ -</b>	
<b>Small Community (Systems that serve a population of 3,301 to 9,999)</b>							<del>\$ 12,848,063</del>			
							<b>\$ 13,730,513</b>	<b>\$ -</b>		
		73	Marshfield	DW291148-04	TP, Stor, Well Rehab	6,633	\$ 6,151,126	\$ 6,151,126		20-1
C		45	Carrollton PWS	DW291368-01	Dis	3,784	\$ 4,180,647	\$ 4,180,647	\$ -	<b>20-2</b> <b>20-3</b>
C		<del>60</del> 41	<del>Bowling Green (Treatment and Distribution)</del>	<del>DW291167-04</del>	<del>TP, Dis</del>	<del>5,334</del>	<del>\$ 2,254,000</del> \$ 882,450	\$ 882,450	\$ -	<del>20-4</del> 20-4
C		25	Centralia	DW291366-01	TP	4,027	\$ 2,516,290	\$ 2,516,290	\$ -	<b>20-1</b> <b>20-3</b>
<b>Small Community Total</b>							<del>\$ 12,848,063</del> <b>\$ 13,730,513</b>	<del>\$ 12,848,063</del> <b>\$ 13,730,513</b>	<b>\$ -</b>	
<b>Balance</b>								<b>\$ -</b>	<b>\$ -</b>	

Carryover	Disadvantaged	Priority Points	Applicant	Project #	Description/ Needs Category	Service Area Population	Amount Requested	Loan Amount	Additional Subsidization Amount	Est. Financing Schedule FY - Quarter
<b>General Community</b>							<del>\$ 61,580,159</del>	\$ 60,697,709	\$ -	
		40	Missouri American Water - Jefferson City Plant Upgrades	DW291375-01	TP, Dis, Stor	32,000	<del>\$ 19,237,104</del> \$ 12,208,539	<del>\$ 19,237,104</del> \$ 12,208,539	\$ -	20-4 20-2
<b>General Community Total</b>							<del>\$ 19,237,104</del> \$ 12,208,539	<del>\$ 19,237,104</del> \$ 12,208,539	\$ -	
<b>Balance</b>								<del>\$ 42,343,055</del> \$ 48,489,170	\$ -	
<b>Total Fundable List Projects</b>							<del>\$ 72,533,089</del> \$ 66,386,974	<del>\$ 50,853,210</del> \$ 44,707,095	\$ 18,602,841	
<b>Balance of Fundable List</b>								<del>\$ 42,343,055</del> \$ 48,489,170	\$ -	

<b>FUNDABLE CONTINGENCY LIST</b> (Debt instrument secured and facility plan submitted; fundable if funds become available)							\$ -	\$ -		
						\$ -	\$ -	\$ -		
<b>Total Fundable Contingency Projects</b>							\$ -	\$ -	\$ -	
<b>CONTINGENCY LIST</b> (Either debt instrument or facility plan has not been submitted)							\$ -	\$ -		
						\$ -	\$ -	\$ -		
<b>Total Contingency Projects</b>							\$ -	\$ -	\$ -	

Carryover	Disadvantaged	Priority Points	Applicant	Project #	Description/ Needs Category	Service Area Population	Amount Requested	Loan Amount	Additional Subsidization Amount	Est. Financing Schedule FY - Quarter
<b>PLANNING LIST - AVAILABLE FUNDS</b>								\$ -	\$ -	
(Debt instrument and facility plan not yet secured/submitted)										
C		60	Bowling Green (Treatment and Distribution)	DW291167-04	TP, Dis	5,334	\$ 2,254,000	\$ -	\$ -	
<b>Total Planning List Projects</b>							\$ 2,254,000	\$ -	\$ -	
							\$ -	\$ -	\$ -	

Description Reference List			
		TP - Treatment	Well - Well
C	Carried over from the last Intended Use Plan	Stor - Storage	Stor Rehab - Storage Rehabilitation
D	Disadvantaged	Dis - Distribution	Well Rehab - Well Rehabilitation
		Rehab - Rehabilitation	

Notes:

\* Applicant has a max bonding capacity that the loan amount cannot exceed.

Final eligible costs will be determined as documents are submitted and the project progresses toward loan closing.

Financing schedule shown is for planning purposes only. Final scheduling will be determined as documents are submitted and approvals obtained.

Carry over projects from the fiscal year 2020 list must reapply to be considered for the fiscal year 2021 list.

**Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # F  
**New Business**

**Issue:**

This routine agenda item provides the Commission the opportunity to discuss last minute or minor issues arising after the agenda has been finalized.

**Recommended Action:**

Information only.

**Presented by:**

Liz Grove, Chair, SDWC

**Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # G  
**Open Comment Session**

**Issue:**

This routine agenda item provides an opportunity for the public to comment on any issues pertinent to the Commission's roles and responsibilities.

**Recommended Action:**

Information only.

**Presented by:**

Liz Grove, Chair, SDWC

**Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # H  
**Future Meeting Dates**

**Issue:**

Commission to review tentative meeting dates and locations:

Date	Time	Location
Wednesday, April 15, 2020	10:00 A.M.	Nightingale Creek Conference Room 1101 Riverside Drive Jefferson City, MO 65101
Monday, July 8, 2020	10:00 A.M.	Nightingale Creek Conference Room 1101 Riverside Drive Jefferson City, MO 65101
Monday, July 10, 2020 Conference Call – Roll Call Vote	10:00 A.M.	Gosling Lake Conference Room 1101 Riverside Drive Jefferson City, MO 65101

**Recommended Action:**

Information only.

**Presented by:**

Liz Grove, Chair, SDWC

## **Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # I

**Closed Session**

**Issue:**

This portion of the meeting may be closed if such action is approved by a majority vote of the Safe Drinking water Commission members who constitute a quorum, pursuant to Section 610.021, RSMo.

**Presented by:**

Liz Grove, Chair, SDWC

**Safe Drinking Water Commission**

Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Public Drinking Water Branch

**January 15, 2020**

Agenda Item # J  
**Meeting Adjournment**

**Issue:**

Routine conclusion of Commission business.

**Recommended Action:**

Commissioners vote to adjourn the meeting

**Suggested Motion Language:**

Chair Grove, I move this meeting of the Safe Drinking Water Commission be adjourned.

**Presented by:**

Liz Grove, Chair, SDWC